

CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF
STRONG MOTION EARTHQUAKE ACCELEROGRAMS

VOLUME III - RESPONSE SPECTRA
PART H - ACCELEROGRAMS IIH115 THROUGH IIH126

REPORT NO. EERL 74-80

A REPORT ON RESEARCH CONDUCTED UNDER A
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

JANUARY, 1974

CALIFORNIA INSTITUTE OF TECHNOLOGY
EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF
STRONG MOTION EARTHQUAKE ACCELEROGRAMS

Volume III - Response Spectra
Part H - Accelerograms IIH115 through IIH126

Report No. EERL 74-80

A Report on Research Conducted Under a Grant from
the National Science Foundation

Pasadena, California
January, 1974

ABSTRACT

This is one of a series of reports presenting earthquake response spectrum curves calculated from corrected accelerograms. In the preface to the first part, Volume III, Part A, Report No. EERL 72-80, there is a summary of response spectrum techniques in earthquake engineering which is available as background material for the data. For each earthquake accelerogram, two spectrum plots are given - relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum is also shown on the linear plot. Digital print-outs of ordinates of the plotted curves are tabulated for each earthquake. The records analyzed in this report, Volume III, Part H, are the corrected accelerogram records of Volume II, Part H, Report No. EERL 74-50, and appeared in their uncorrected form in Volume I, Part H, Report No. EERL 72-21.

TABLE OF CONTENTS

	<u>Page</u>
Preface to Volume III, Part H	1
Notes on the Volume III Series	2
Index of Earthquake Records, Earthquake Data, and References for Volume III, Part H	9
Plots and Print-Outs of Response Spectra for Accelerograms IIH115 through IIH126	14
List of EERL Reports Available from NTIS	158

PREFACE TO VOLUME III, PART H

This report, Volume III, Part H, Report No. EERL 74-80, is part of the Volume III series presenting earthquake response spectrum curves calculated from corrected accelerograms. We continue here with records from the San Fernando, California, earthquake of February 9, 1971. The analysis of records from this earthquake appeared first in Volume III, Part C, Report No. EERL 73-81, and this continuation includes the analysis of records from the following locations:

1. 15250 Ventura Boulevard, Los Angeles (3 records)
2. 8639 Lincoln Ave., Los Angeles (3 records)
3. 900 S. Fremont Ave., Alhambra (3 records)
4. 2600 Nutwood, Fullerton (3 records)

The uncorrected versions of these records appeared in Volume I, Part H, Report No. EERL 72-21, and the corrected accelerations, velocities, and displacements were included in Volume II, Part H, Report No. EERL 74-50. The Volume II corrections included a long period cut-off of 8 seconds for the 70-mm film records in this part instead of the standard cut-off period of approximately 15 seconds. The results published here reflect this altered frequency band.

A number of very low amplitude accelerograms have been eliminated from the processing of Volume II and on, reflecting the expectation that the resulting displacements would be dominated by noise. Included in this group of accelerograms, and therefore eliminated from this part, is H127 from the basement of the San Diego Gas & Electric Building in San Diego.

NOTES ON THE VOLUME III SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II. A brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field appeared in Volume III, Part A, Report No. 72-80, and this may be referred to by those users who need more explanatory remarks than appear in the following.

The Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm.

Contents of the Various Parts. Part A of Volume III contained the response spectra analysis for the corrected records of Volume II, Part A, Report No. EERL 71-50. In turn, the "uncorrected" versions of these records appeared in Part A of Volume I. This arrangement has been maintained in all subsequent parts. In Part C of Volume III, Report No. EERL 73-81, we began the presentation of response spectra

analysis for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971. These are expected to be concluded with Part S. The reports following Part S will continue with the original selection of approximately one hundred strong-motion records whose presentation was initiated in Parts A and B.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume III are concerned with absolute values of the response and the particular component sense in this report is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent, 35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from

all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I, K, N, Q, R, S: All records in these parts.

Part J: Records J142, J145 through J150.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II and on), reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156; K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

Description of the Figures and Tables. For each component in the following pages there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date, and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIIA001, indicates that this analysis appears in Volume III, Part A, that the processed record belongs to Volume II, Part A, containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 40.001.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory during that year, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10, and 20 percent of critical, and these curves will usually be easily distinguishable, with the zero damped curve having the greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to

15 seconds, or 8 seconds, as the case may be, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD, and PSA detailed in Volume III, Part A, Report No. EERL 72-80. The units are, once again, the engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA, and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e.g., 432-1 represents a value of 43.2.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and, for all of the five damping values, the pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering at the California Institute of Technology.

Inclusion of Spectra of Upper Story Records. The earthquake response spectrum was originally introduced as a means of characterizing the response of structures to the exciting ground motion, and hence such spectra are usually calculated from ground motions themselves. There are many instances, however, in which a structural motion is the excitation, for example, of mechanical equipment or other objects attached at upper story locations in buildings. In such cases it may be useful to calculate a response spectrum based on an acceleration-time function which is in itself a response to the earthquake ground motion. Such response spectra of structural motions will ordinarily contain predominant peaks corresponding to structural frequencies and will consequently appear very different from ground spectra.

A number of accelerograms have been obtained from instruments located in upper floors of buildings, and it has been decided to include response spectra computed from these structural responses in the same form as the ground spectra. Such building spectra will be useful in estimating the response of equipment and contents to building motions excited by earthquakes. The reader is cautioned to keep this point in mind and to avoid such building spectra when studying the characteristics of the ground motion itself.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for his assistance

with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken with typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

M. D. Trifunac
A. G. Brady
D. E. Hudson
Earthquake Engineering Research Laboratory
California Institute of Technology

INDEX OF EARTHQUAKE RECORDS IN
VOLUME III, PART H

	<u>Page</u>
San Fernando Earthquake, February 9, 1971 - 0600 PST	
IIH115; 15250 Ventura Blvd., Los Angeles, Calif.; Basement; N11E, N79W, Down	14
IIH116; 15250 Ventura Blvd., Los Angeles, Calif.; 7th Floor; N11E, N79W, Down	26
IIH117; 15250 Ventura Blvd., Los Angeles, Calif.; Roof; N11E, N79W, Down	38
IIH118; 8639 Lincoln Ave., Los Angeles, Calif.; Basement; S-E, S-W, Down	50
IIH119; 8639 Lincoln Ave., Los Angeles, Calif.; 6th Floor; S-W, S-E, Down	62
IIH120; 8639 Lincoln Ave., Los Angeles, Calif.; 12th Floor; S-W, S-E, Down	74
IIH121; 900 S. Fremont Ave., Alhambra, Calif.; Basement; West, South, Down	86
IIH122; 900 S. Fremont Ave., Alhambra, Calif.; 6th Floor; West, South, Down	98
IIH123; 900 S. Fremont Ave., Alhambra, Calif.; 12th Floor; West, South, Down	110
IIH124; 2600 Nutwood, Fullerton, Calif.; Basement; West, South, Down	122
IIH125; 2600 Nutwood, Fullerton, Calif.; Penthouse, Center; West, South, Down	134
IIH126; 2600 Nutwood, Fullerton, Calif.; Penthouse, W. Wing; South, West, Down	146

EARTHQUAKE DATA

The San Fernando, California, Earthquake of February 9, 1971,
0600 PST; epicenter, $34^{\circ}24.0'N$, $118^{\circ}23.7'W$; maximum intensity, XI;
revised magnitude (M_L), 6.4; depth, 13.0 km.

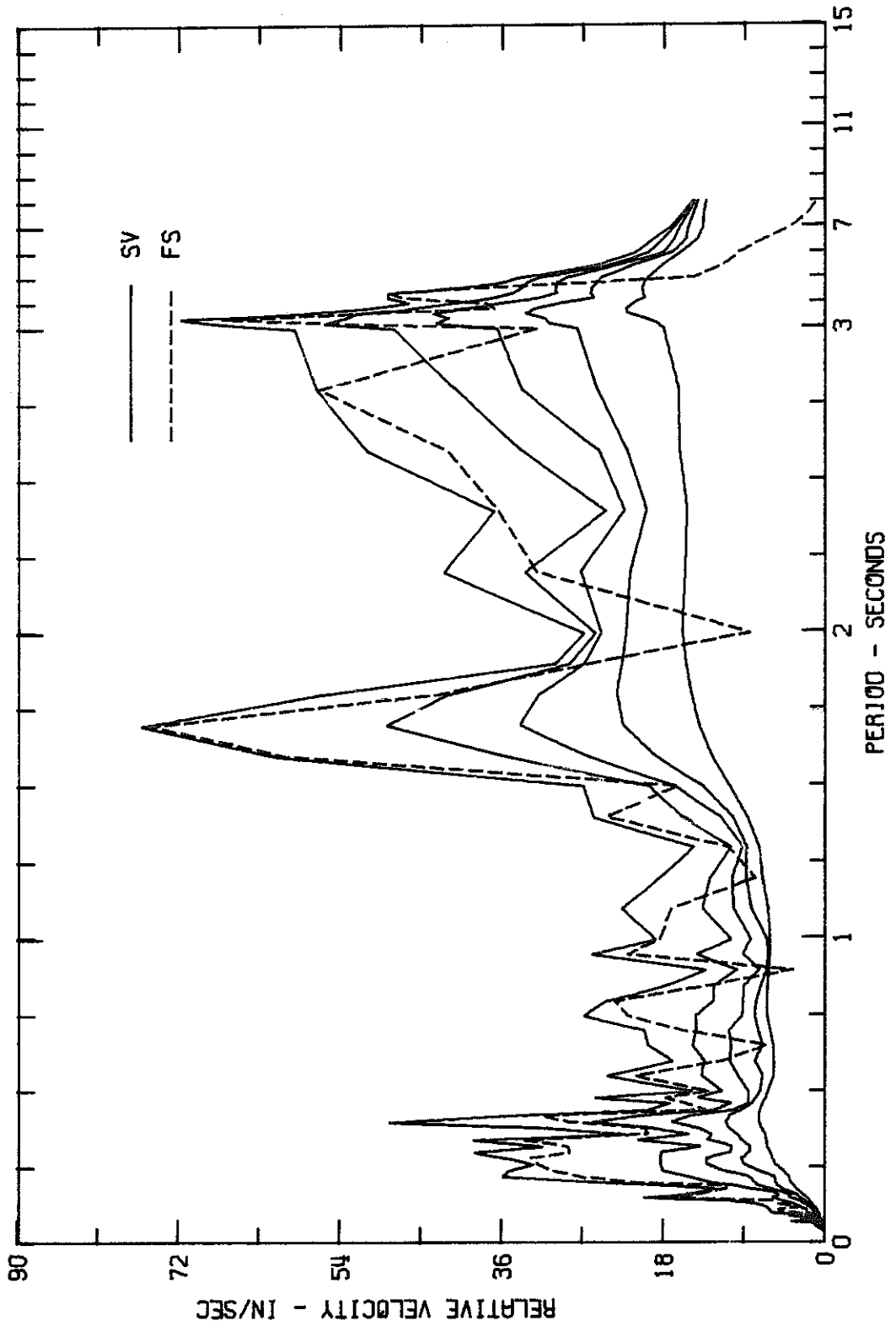
REFERENCES (See additional list, page 158)

- (April-May, 1971). "The San Fernando Earthquake," California Geology, v. 24, n. 4-5.
 - (November, 1971). "Report of the Los Angeles County Earthquake Commission, San Fernando Earthquake, February 9, 1971," prepared for the Los Angeles Board of Supervisors.
 - "The San Fernando Earthquake of February 9, 1971," National Academy of Sciences, Washington, D.C.
- Barrows, A. G., et al (1971). "Map of Surface Breaks Resulting from the San Fernando, California, Earthquake of February 9, 1971," California Division of Mines and Geology.
- Bolt, B. A. (August, 1972). "San Fernando Rupture Mechanism and the Pacoima Strong-Motion Record," Bull. Seism. Soc. Am., v. 62, n. 4, 1053-1061.
- Boore, D. M. (October, 1973). "The Effect of Simple Topography on Seismic Waves: Implications for the Accelerations Recorded at Pacoima Dam, San Fernando Valley, California," Bull. Seism. Soc. Am., v. 63, n. 5, 1603-1609.
- Canitez, N. and M. N. Toksöz (May, 1972). "Static and Dynamic Study of Earthquake Source Mechanism: San Fernando Earthquake," Journal of Geophysical Research, v. 77, n. 14, 2583-2594.
- Division of Geological and Planetary Sciences, California Institute of Technology (April, 1971). "Preliminary Seismological and Geological Studies of the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Am., v. 61, n. 2, 491-495.
- Hanks, T. C. (February, 1974). "The Faulting Mechanism of the San Fernando, California, Earthquake," J. Geophys. Res., v. 79, In Press.
- Housner, G. W. and P. C. Jennings (July-September, 1972). "The San Fernando California Earthquake," Earthquake Engineering and Structural Dynamics, The Journal of the International Association for Earthquake Engineering, v. 1, n. 1, 5-31.
- Hudson, D. E. (December, 1972). "Local Distribution of Strong Earthquake Ground Motions," Bull. Seism. Soc. Am., v. 62, n. 6, 1765-1786.
- Mikumo, T. (1973). "Faulting Process of the San Fernando Earthquake of February 9, 1971 Inferred from Static and Dynamic Near-Field Displacements," Bull. Seism. Soc. Am., v. 63, n. 1, 249-269.

- Perez, V. (1973). "Velocity Response Envelope Spectrum as a Function of Time, for the Pacoima Dam, San Fernando Earthquake, February 9, 1971," Bull. Seism. Soc. Am., v. 63, n. 1, 299-313.
- Proctor, R. J., R. Crook, Jr., M. H. McKeown, and R. L. Moresco (June, 1972). "Relation of Known Faults to Surface Ruptures, 1971 San Fernando Earthquake, Southern California," Bull. Geol. Soc. Am., v. 83, 1601-1618.
- Scott, R. F. (October, 1973). "The Calculation of Horizontal Accelerations from Seismoscope Records," Bull. Seism. Soc. Am., v. 63, n. 5, 1637-1661.
- Steinbrugge, K. V., et al (August, 1971). "The San Fernando Earthquake, February 9, 1971," Pacific Fire Rating Bureau, 465 California Street, San Francisco, California.
- Trifunac, M. D. (June, 1972). "Stress Estimates for the San Fernando, California, Earthquake of February 9, 1971: Main Event and Thirteen Aftershocks," Bull. Seism. Soc. Am., v. 62, n. 3, 721-750.
- Trifunac, M. D. and D. E. Hudson (October, 1971). "Analysis of the Pacoima Dam Accelerogram," Bull. Seism. Soc. Am., v. 61, n. 5, 1393-1411.
- Trifunac, M. D. (February, 1974). "A Three-Dimensional Dislocation Model for the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Am., v. 64, n. 1, In Press.
- U. S. Department of Commerce (March, 1971). "The San Fernando, California, Earthquake of February 9, 1971," National Bureau of Standards Report 10556.
- U. S. Department of Commerce (December, 1971). "Engineering Aspects of the 1971 San Fernando Earthquake," Building Science Series 40, National Bureau of Standards.
- U. S. Geological Survey and the National Oceanic and Atmospheric Administration. "The San Fernando, California, Earthquake of February 9, 1971," Geological Survey Professional Paper 733, (preliminary report).

Page 13
Is a blank page.

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP N11E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

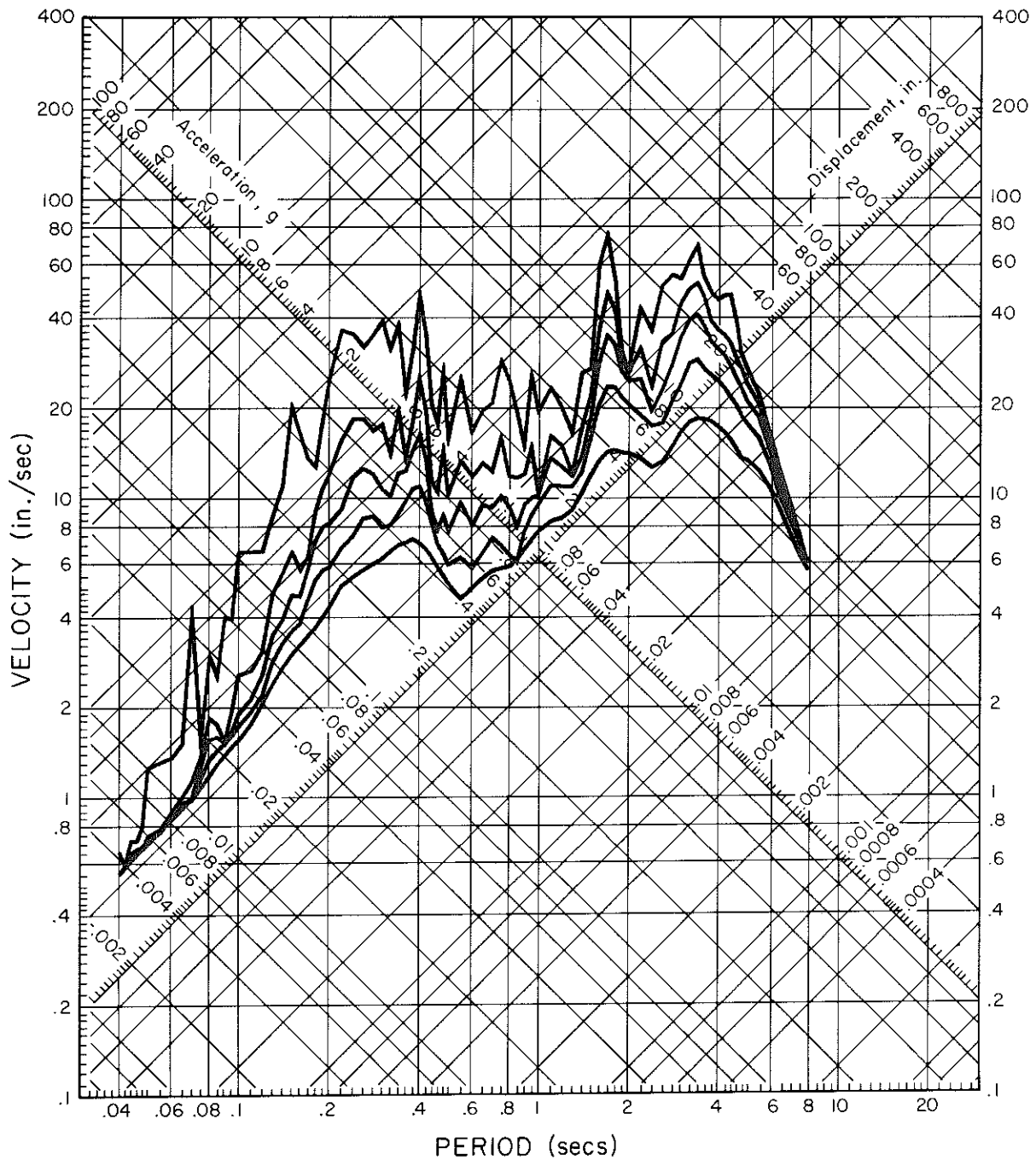


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP N11E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

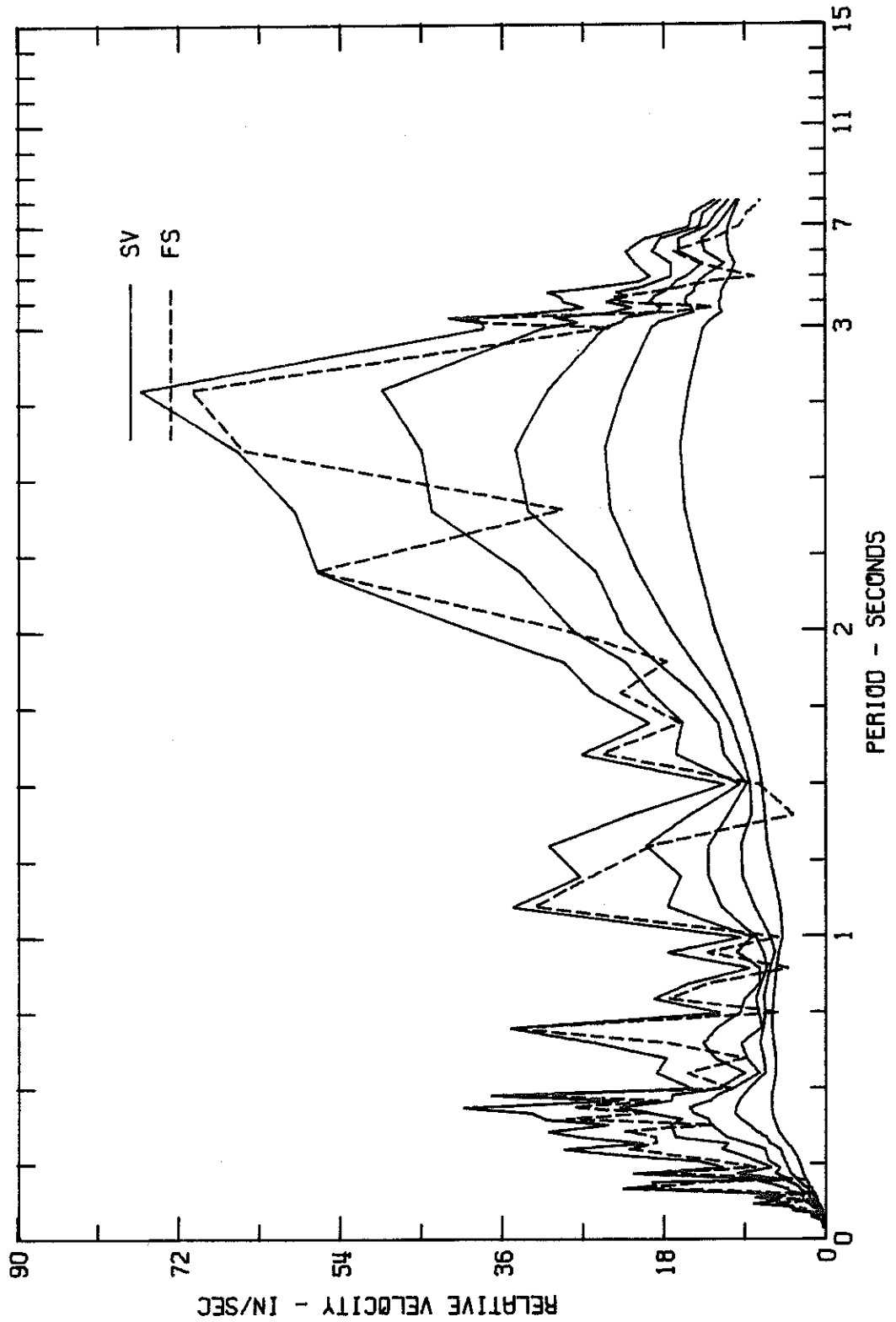


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIIH15 71.024.0 15250 VENTURA BLVD., BASEMENT, LCS ANGELES, CAL. COMP NILE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.040	162-3	415-5	240-3	265-3	651-3	352-5	104-3	225-3	553-3	354-5	103-3	226-3	557-3	354-5	104-3	226-3	557-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3	352-5	102-3	225-3	554-3
0.042	911-4	392-5	173-3	227-3	587-3	393-5	119-3	228-3	588-3	394-5	117-3	228-3	589-3	393-5	115-3	228-3	588-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3	390-5	112-3	226-3	584-3
0.044	160-3	502-5	263-3	265-3	718-3	455-5	140-3	240-3	651-3	441-5	131-3	233-3	630-3	434-5	127-3	229-3	620-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3	430-5	123-3	227-3	614-3
0.046	913-4	525-5	214-3	253-3	717-3	492-5	151-3	238-3	672-3	484-5	140-3	234-3	661-3	477-5	138-3	230-3	652-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3	471-5	134-3	228-3	643-3
0.048	899-4	614-5	347-3	272-3	803-3	522-5	189-3	231-3	683-3	527-5	156-3	234-3	690-3	521-5	148-3	231-3	682-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3	514-5	146-3	228-3	673-3
0.050	469-3	100-4	753-3	410-3	126-2	591-5	213-3	241-3	743-3	574-5	172-3	235-3	722-3	565-5	161-3	231-3	710-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3	558-5	158-3	229-3	702-3
0.055	734-3	115-4	101-2	389-3	131-2	683-5	318-3	231-3	780-3	668-5	256-3	226-3	763-3	677-5	212-3	228-3	773-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3	677-5	192-3	229-3	774-3
0.060	111-2	130-4	113-2	370-3	136-2	860-5	401-3	244-3	900-3	826-5	345-3	234-3	865-3	814-5	288-3	231-3	852-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3	808-5	234-3	230-3	846-3
0.065	212-3	157-4	110-2	381-3	152-2	104-4	625-3	252-3	100-2	994-5	455-3	240-3	961-3	961-5	355-3	233-3	929-3	950-5	291-3	230-3	918-3	929-3	950-5	291-3	230-3	918-3	929-3	950-5	291-3	230-3	918-3	929-3	950-5	291-3	230-3	918-3	929-3	950-5	291-3	230-3	918-3	929-3	950-5	291-3	230-3	918-3			
0.070	342-2	451-4	378-2	943-3	405-2	127-4	772-3	266-3	114-2	110-4	529-3	229-3	989-3	109-4	453-3	228-3	983-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3	110-4	356-3	230-3	990-3
0.075	771-3	182-4	116-2	331-3	152-2	163-4	772-3	298-3	137-2	153-4	654-3	277-3	128-2	139-4	540-3	256-3	116-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2	128-4	431-3	237-3	107-2
0.080	253-2	380-4	266-2	607-3	298-2	236-4	105-2	376-3	185-2	199-4	772-3	317-3	156-2	171-4	656-3	275-3	135-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2	151-4	501-3	247-3	119-2
0.085	127-2	342-4	217-2	484-3	253-2	237-4	116-2	337-3	175-2	216-4	941-3	306-3	159-2	195-4	764-3	277-3	144-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2	175-4	579-3	253-3	130-2
0.090	360-2	579-4	396-2	732-3	404-2	219-4	106-2	277-3	153-2	220-4	100-2	278-3	153-2	217-4	867-3	275-3	151-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2	199-4	645-3	256-3	139-2
0.095	126-2	602-4	358-2	682-3	398-2	298-4	161-2	339-3	197-2	253-4	124-2	288-3	167-2	243-4	969-3	279-3	161-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2	223-4	717-3	260-3	148-2
0.100	371-2	106-3	598-2	109-2	669-2	412-4	200-2	421-3	259-2	304-4	132-2	311-3	191-2	277-4	101-2	285-3	174-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2	249-4	768-3	260-3	156-2
0.110	529-2	117-3	622-2	991-3	669-2	466-4	208-2	394-3	266-2	375-4	148-2	321-3	214-2	340-4	118-2	290-3	194-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2	310-4	913-3	264-3	177-2
0.120	274-2	128-3	648-2	914-3	674-2	593-4	272-2	421-3	310-2	492-4	178-2	350-3	258-2	422-4	144-2	306-3	221-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2	394-4	117-2	286-3	206-2
0.130	535-2	183-3	791-2	110-2	884-2	100-3	368-2	605-3	486-2	728-4	238-2	439-3	352-2	592-4	181-2	359-3	286-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2	500-4	144-2	283-3	241-2
0.140	594-2	247-3	107-1	128-2	110-1	127-3	493-2	669-3	573-2	887-4	300-2	466-3	398-2	736-4	238-2	385-3	330-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2	609-4	175-2	327-3	273-2
0.150	186-1	490-3	163-1	168-2	165-1	147-3	519-2	588-3	581-2	120-3	383-2	524-3	479-2	865-4	292-2	393-3	362-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2	723-4	201-2	338-3	303-2
0.160	143-1	422-3	133-1	131-2	137-1	175-3	569-2	818-3	647-2	157-3	497-2	559-3	583-2	125-3	410-2	455-3	462-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2	946-4	286-2	346-3	349-2
0.170	130-1	370-3	135-1	157-2	183-1	331-3	103-1	937-3	109-1	244-3	760-2	700-3	809-2	176-3	537-2	511-3	583-2	122-3	358-2	360-3	404-2	122-3	358-2	360-3	404-2	122-3	358-2	360-3	404-2	122-3	358-2	360-3																	

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIIH115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP N79W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

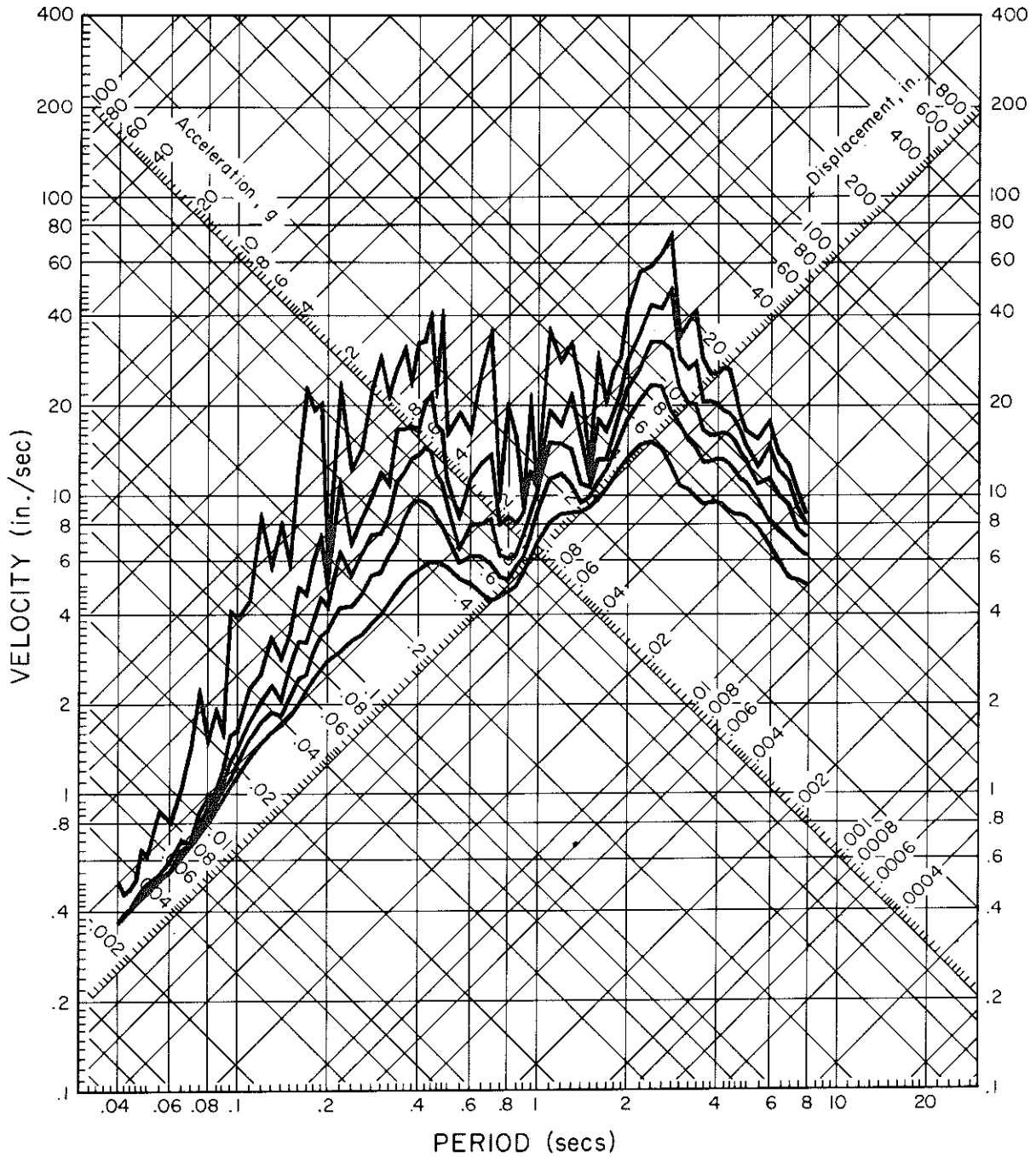


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP N79W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



111H115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP N79W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	504-2	124-2	118-1	226-3	104-1	959-3	962-2	174-3	804-2	756-3	761-2	138-3	633-2	639-3	682-2	118-3	535-2
0.80	174-1	253-2	192-1	405-3	199-1	109-2	900-2	174-3	857-2	786-3	791-2	126-3	618-2	671-3	693-2	108-3	527-2
0.85	130-1	214-2	153-1	303-3	158-1	109-2	741-2	155-3	811-2	862-3	720-2	122-3	637-2	784-3	665-2	112-3	580-2
0.90	419-2	136-2	847-2	172-3	953-2	121-2	746-2	161-3	889-2	107-2	603-2	136-3	748-2	902-3	621-2	115-3	630-2
0.95	132-1	306-2	176-1	347-3	202-1	181-2	100-1	206-3	120-1	133-2	704-2	151-3	879-2	111-2	568-2	127-3	735-2
1.00	522-2	169-2	946-2	172-3	106-1	169-2	825-2	173-3	106-1	166-2	788-2	170-3	104-1	141-2	625-2	146-3	888-2
1.10	325-1	627-2	349-1	530-3	358-1	337-2	176-1	285-3	193-1	265-2	117-1	225-3	151-1	200-2	806-2	171-3	114-1
1.20	261-1	538-2	274-1	382-3	281-1	328-2	161-1	233-3	172-1	286-2	131-1	204-3	150-1	227-2	942-2	164-3	119-1
1.30	192-1	675-2	308-1	408-3	326-1	451-2	201-1	273-3	218-1	297-2	130-1	181-3	144-1	225-2	950-2	138-3	108-1
1.40	362-2	513-2	219-1	268-3	230-1	351-2	152-1	183-3	157-1	245-2	109-1	128-3	110-1	211-2	831-2	112-3	950-2
1.50	747-2	307-2	112-1	139-3	128-1	271-2	961-2	123-3	113-1	256-2	884-2	117-3	107-1	238-2	851-2	110-3	999-2
1.60	249-1	736-2	273-1	294-3	289-1	459-2	168-1	183-3	180-1	338-2	114-1	135-3	132-1	285-2	953-2	116-3	112-1
1.70	162-1	559-2	196-1	197-3	206-1	446-2	159-1	158-3	164-1	360-2	121-1	128-3	133-1	332-2	108-1	119-3	122-1
1.80	228-1	757-2	259-1	239-3	264-1	551-2	195-1	174-3	192-1	462-2	149-1	146-3	161-1	399-2	125-1	128-3	139-1
1.90	177-1	883-2	292-1	250-3	292-1	676-2	224-1	191-3	223-1	592-2	190-1	168-3	195-1	483-2	149-1	139-3	159-1
2.00	285-1	131-1	388-1	336-3	413-1	901-2	281-1	230-3	283-1	733-2	225-1	188-3	230-1	573-2	172-1	149-3	180-1
2.20	566-1	198-1	566-1	419-3	566-1	122-1	342-1	258-3	349-1	935-2	257-1	158-3	267-1	734-2	210-1	158-3	209-1
2.40	292-1	226-1	591-1	401-3	592-1	167-1	439-1	297-3	438-1	125-1	332-1	224-3	204-1	783-2	185-1	163-3	236-1
2.60	648-1	269-1	655-1	408-3	652-1	176-1	451-1	266-3	425-1	136-1	346-1	207-3	329-1	963-2	246-1	149-3	232-1
2.80	706-1	334-1	763-1	436-3	751-1	219-1	494-1	156-3	287-1	108-1	246-1	124-3	227-1	826-2	194-1	160-4	173-1
3.00	240-1	163-1	380-1	185-3	342-1	137-1	314-1	156-3	287-1	108-1	246-1	124-3	227-1	826-2	194-1	160-4	173-1
3.20	381-1	194-1	381-1	194-3	381-1	135-1	275-1	135-3	265-1	104-1	227-1	104-3	204-1	783-2	185-1	800-4	153-1
3.40	399-1	224-1	420-1	198-3	414-1	152-1	302-1	134-3	280-1	109-1	222-1	975-4	202-1	784-2	167-1	712-4	144-1
3.60	165-1	163-1	321-1	128-3	285-1	118-1	237-1	932-4	206-1	949-2	187-1	753-4	165-1	745-2	146-1	602-4	130-1
3.80	124-1	154-1	269-1	109-3	256-1	125-1	215-1	888-4	207-1	968-2	182-1	690-4	160-1	789-2	149-1	567-4	130-1
4.00	229-1	162-1	292-1	104-3	255-1	129-1	245-1	828-4	203-1	101-1	196-1	650-4	160-1	848-2	156-1	557-4	133-1
4.20	234-1	178-1	295-1	103-3	267-1	129-1	222-1	748-4	193-1	108-1	190-1	636-4	162-1	887-2	155-1	532-4	132-1
4.40	192-1	185-1	309-1	980-4	265-1	132-1	233-1	702-4	189-1	112-1	180-1	595-4	160-1	898-2	147-1	492-4	128-1
4.60	159-1	163-1	256-1	792-4	223-1	130-1	204-1	633-4	178-1	111-1	171-1	543-4	152-1	886-2	145-1	439-4	121-1
4.80	128-1	142-1	206-1	631-4	186-1	126-1	186-1	560-4	165-1	107-1	166-1	479-4	140-1	870-2	140-1	400-4	113-1
5.00	795-2	131-1	195-1	536-4	164-1	118-1	172-1	484-4	148-1	105-1	155-1	434-4	132-1	887-2	134-1	379-4	111-1
5.50	140-1	136-1	212-1	459-4	155-1	110-1	172-1	372-4	125-1	961-2	137-1	329-4	109-1	846-2	112-1	303-4	967-2
6.00	170-1	169-1	222-1	481-4	177-1	140-1	193-1	398-4	146-1	109-1	164-1	312-4	114-1	789-2	135-1	234-4	826-2
6.50	124-1	142-1	200-1	345-4	178-1	124-1	184-1	302-4	120-1	103-1	163-1	251-4	99-2	783-2	138-1	196-4	757-2
7.00	963-2	141-1	151-1	294-4	126-1	124-1	139-1	259-4	111-1	103-1	131-1	218-4	932-2	796-2	120-1	169-4	715-2
7.50	873-2	122-1	148-1	223-4	102-1	108-1	136-1	198-4	910-2	923-2	121-1	171-4	773-2	791-2	110-1	157-4	663-2
8.00	732-2	110-1	123-1	177-4	870-2	102-1	117-1	164-4	806-2	927-2	108-1	152-4	728-2	803-2	996-2	142-4	630-2

DAMPING = 0 PER CENT

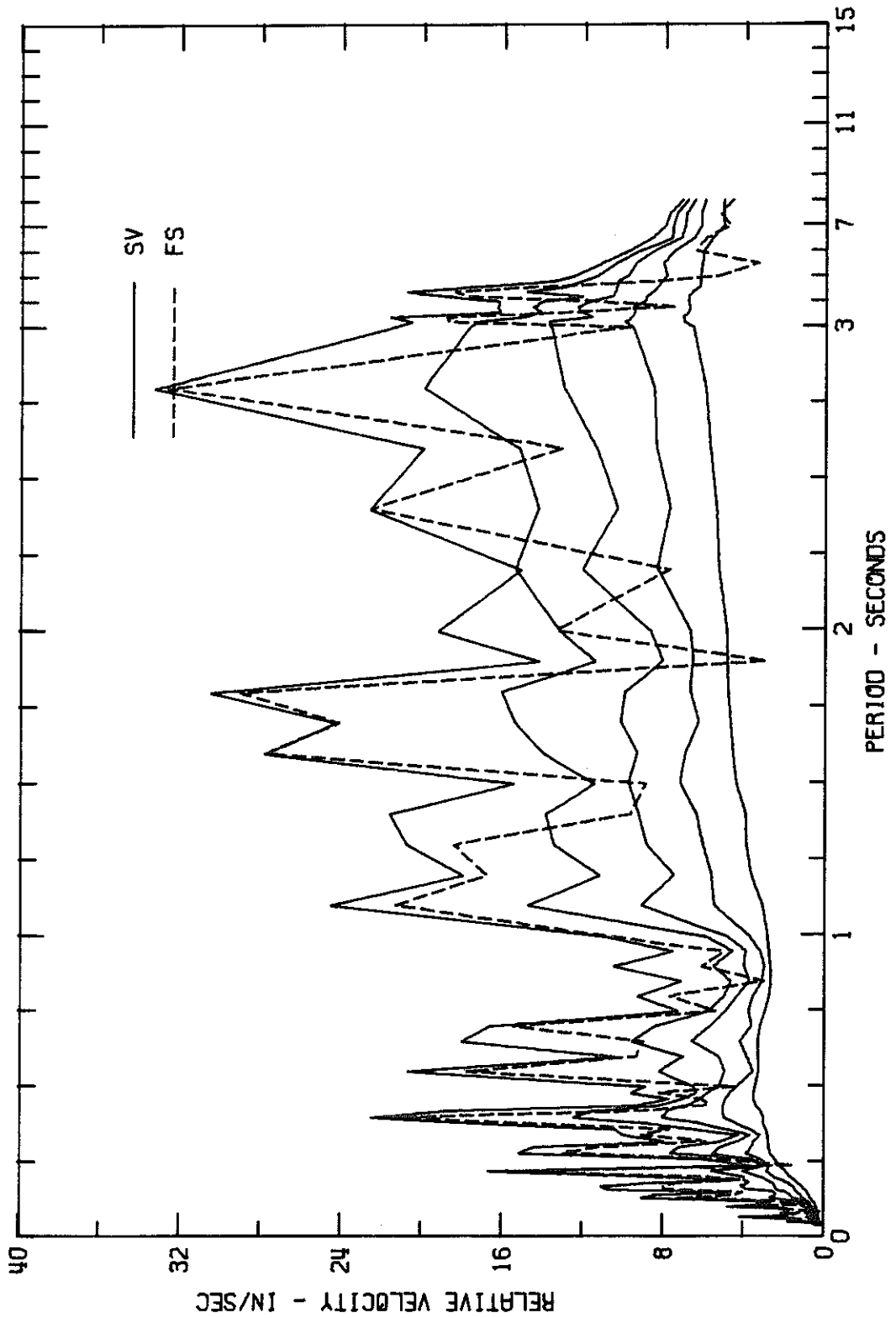
DAMPING = 2 PER CENT

DAMPING = 5 PER CENT

DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

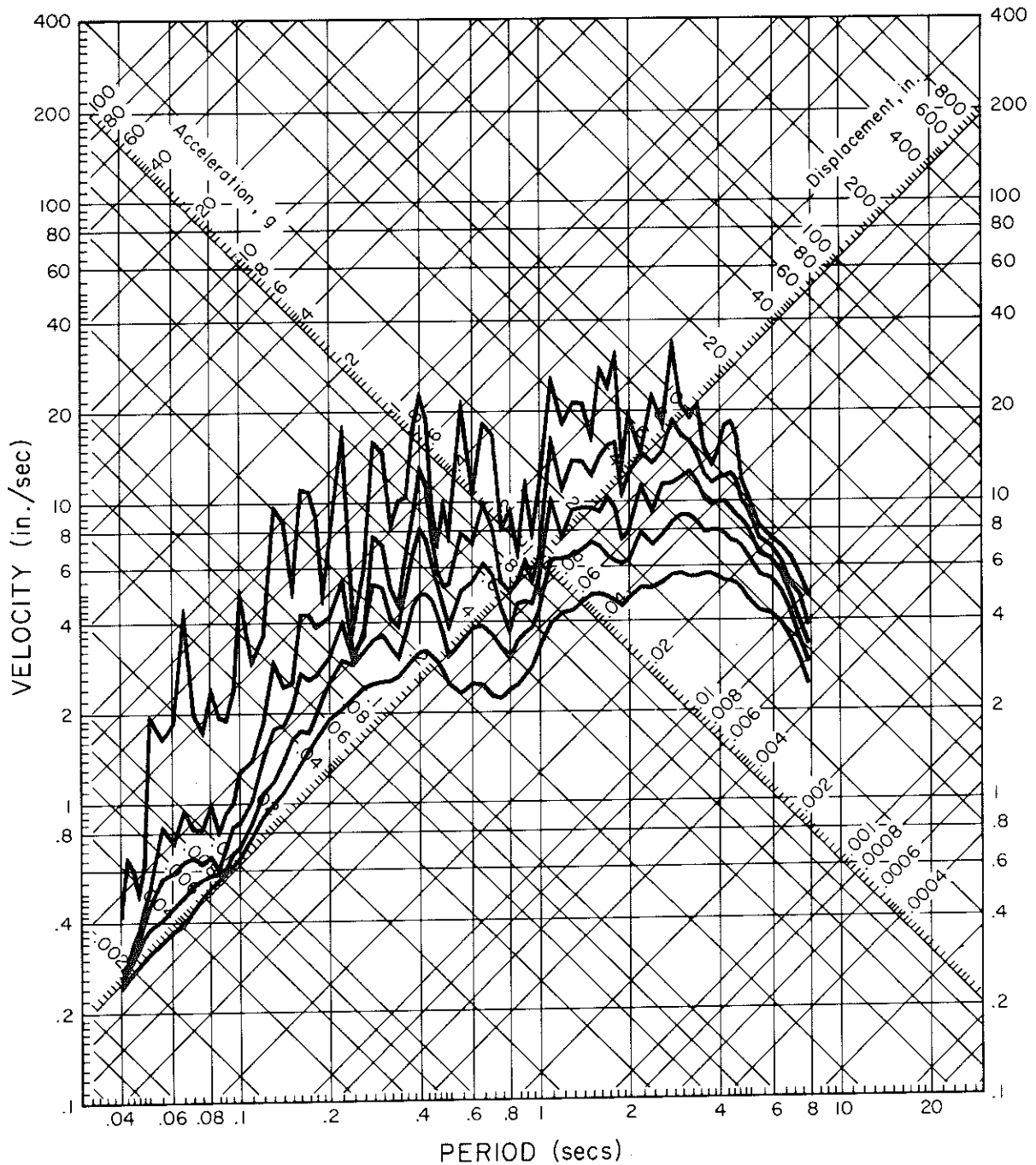


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

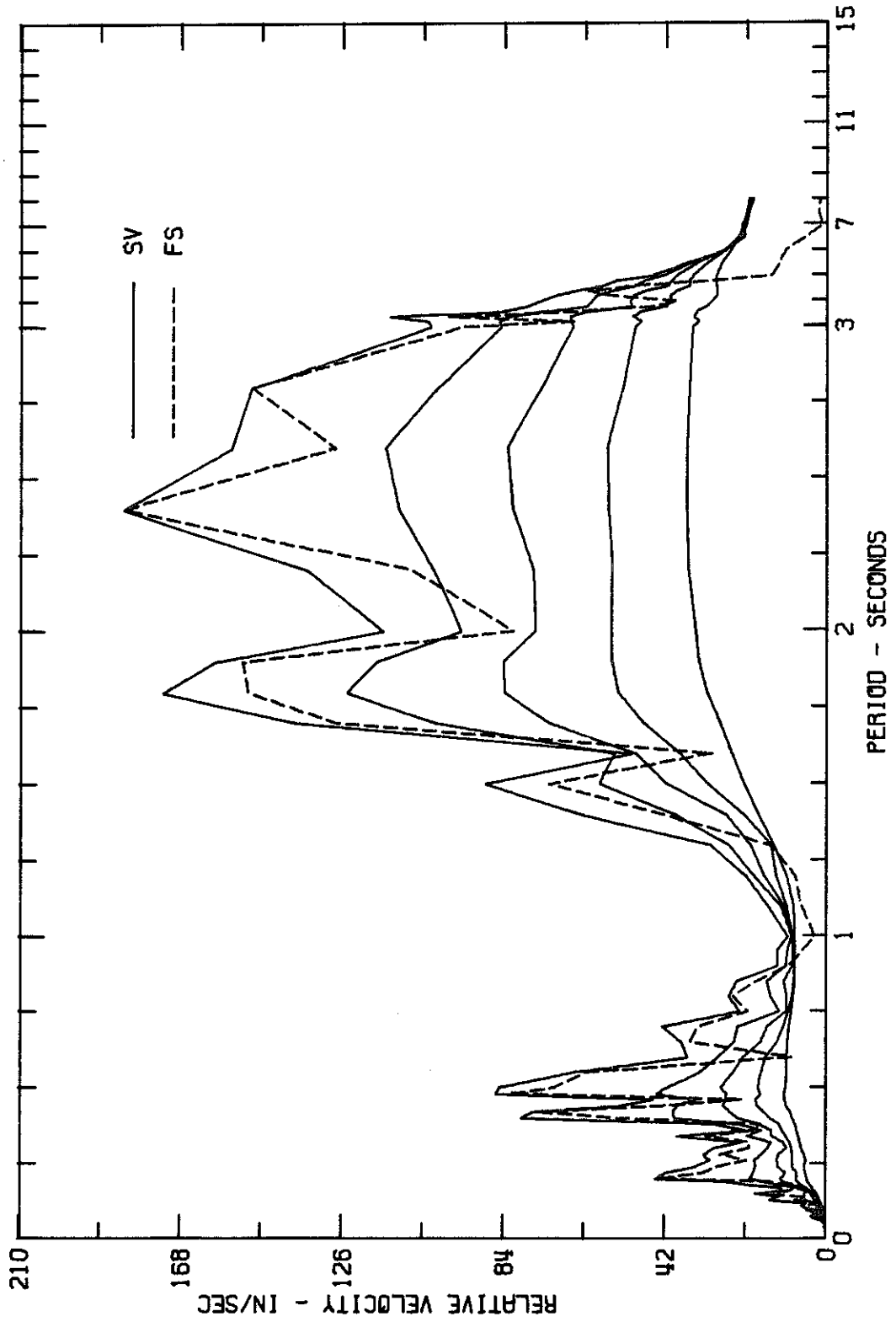


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 1111115 71.024.0 15250 VENTURA BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	267-3	267-5	334-3	171-3	420-3	176-5	140-3	113-3	277-3	166-5	136-3	106-3	260-3	164-5	128-3	105-3	258-3	154-5	108-3	100-3	243-3
0.042	352-3	438-5	517-3	254-3	656-3	195-5	158-3	113-3	292-3	189-5	152-3	109-3	282-3	185-5	142-3	108-3	277-3	172-5	118-3	102-3	257-3
0.044	384-3	420-5	480-3	222-3	600-3	239-5	185-3	126-3	341-3	222-5	173-3	117-3	317-3	210-5	156-3	112-3	300-3	190-5	129-3	103-3	272-3
0.046	843-4	364-5	348-3	176-3	497-3	277-5	217-3	133-3	378-3	260-5	195-3	126-3	356-3	239-5	177-3	117-3	326-3	230-5	143-3	103-3	287-3
0.048	296-3	482-5	508-3	214-3	631-3	344-5	282-3	153-3	451-3	308-5	246-3	137-3	404-3	274-5	200-3	121-3	355-3	230-5	154-3	103-3	302-3
0.050	112-2	154-4	180-2	633-3	194-2	411-5	370-3	169-3	517-3	362-5	305-3	150-3	454-3	304-5	220-3	125-3	382-3	251-5	165-3	103-3	316-3
0.055	925-3	144-4	156-2	487-3	164-2	729-5	719-3	245-3	833-3	493-5	457-3	167-3	563-3	359-5	297-3	122-3	410-3	299-5	203-3	103-3	342-3
0.060	165-2	179-4	181-2	508-3	187-2	707-5	602-3	200-3	740-3	566-5	488-3	162-3	593-3	430-5	364-3	124-3	451-3	357-5	248-3	104-3	374-3
0.065	420-2	437-4	422-2	108-2	423-2	978-5	891-3	236-3	946-3	664-5	605-3	161-3	642-3	506-5	428-3	123-3	489-3	408-5	282-3	103-3	394-3
0.070	175-2	220-4	188-2	460-3	197-2	918-5	722-3	192-3	824-3	738-5	506-3	153-3	662-3	596-5	418-3	124-3	535-3	450-5	291-3	103-3	440-3
0.075	137-2	208-4	165-2	376-3	173-2	984-5	712-3	201-3	985-3	756-5	525-3	137-3	633-3	670-5	394-3	121-3	561-3	580-5	307-3	106-3	486-3
0.080	152-2	304-4	216-2	487-3	239-2	125-4	921-3	178-3	985-3	851-5	589-3	137-3	669-3	737-5	426-3	117-3	579-3	668-5	331-3	107-3	525-3
0.085	236-3	262-4	176-2	371-3	194-2	108-4	650-3	154-3	802-3	813-5	513-3	115-3	601-3	796-5	458-3	113-3	588-3	754-5	351-3	108-3	557-3
0.090	154-2	273-4	176-2	344-3	190-2	134-4	730-3	169-3	937-3	103-4	553-3	131-3	722-3	875-5	475-3	110-3	611-3	846-5	372-3	108-3	591-3
0.095	215-2	359-4	225-2	407-3	237-2	152-4	715-3	208-3	128-2	137-4	660-3	140-3	864-3	114-4	570-3	120-3	720-3	105-4	417-3	109-3	662-3
0.100	367-2	790-4	487-2	808-3	496-2	204-4	123-2	205-3	139-2	180-4	903-3	150-3	102-2	150-4	692-3	127-3	860-3	136-4	465-3	117-3	779-3
0.110	788-3	520-4	266-2	439-3	297-2	244-4	129-2	255-3	188-2	271-4	964-3	193-3	142-2	207-4	789-3	149-3	108-2	173-4	559-3	125-3	907-3
0.120	264-2	700-4	338-2	497-3	366-2	359-4	129-2	208-3	244-2	369-4	158-2	224-3	178-2	246-4	104-2	148-3	118-2	207-4	703-3	127-3	100-2
0.140	444-2	837-2	101-2	671-2	545-4	244-2	236-2	283-3	244-2	407-4	170-2	211-3	183-2	308-4	116-2	160-3	138-2	244-4	772-3	131-3	109-2
0.150	400-2	124-3	488-2	564-3	520-2	604-4	250-2	273-3	253-2	501-4	191-2	229-3	210-2	393-4	133-2	179-3	164-2	292-4	848-3	137-3	122-2
0.160	796-2	285-3	107-1	114-2	112-1	109-3	389-2	435-3	429-2	693-4	237-2	277-3	272-2	447-4	144-2	179-3	175-2	348-4	983-3	143-3	136-2
0.170	800-2	298-3	110-1	105-2	110-1	116-3	414-2	413-3	429-2	700-4	247-2	250-3	268-2	467-4	152-2	167-3	172-2	407-4	115-2	149-3	150-2
0.180	724-2	261-3	891-2	824-3	911-2	111-3	374-2	351-3	387-2	769-4	252-2	243-3	291-2	565-4	177-2	180-3	197-2	473-4	133-2	154-3	165-2
0.190	404-2	149-3	471-2	423-3	494-2	123-3	394-2	347-3	407-2	880-4	309-2	257-3	310-2	812-4	246-2	216-3	228-2	540-4	151-2	159-3	178-2
0.200	568-2	243-3	727-2	622-3	765-2	134-3	359-2	214-3	316-2	115-3	299-2	202-3	301-2	110-3	273-2	197-3	290-2	864-4	224-2	160-3	226-2
0.220	162-1	595-3	167-1	125-2	170-1	193-3	562-2	407-3	553-2	140-3	405-2	304-3	401-2	105-3	284-2	230-3	301-2	726-4	195-2	163-3	207-2
0.240	154-2	146-3	371-2	259-3	382-2	121-3	293-2	214-3	316-2	157-3	376-2	237-3	380-2	133-3	316-2	205-3	322-2	100-3	244-2	157-3	243-2
0.260	539-2	252-3	603-2	382-3	610-2	149-3	364-2	227-3	362-2	157-3	376-2	237-3	380-2	133-3	316-2	205-3	322-2	100-3	244-2	157-3	243-2
0.280	130-1	715-3	152-1	933-3	160-1	347-3	770-2	451-3	779-2	239-3	557-2	312-3	538-2	157-3	389-2	208-3	352-2	112-3	268-2	158-3	251-2
0.300	112-1	703-3	143-1	799-3	147-1	345-3	713-2	395-3	724-2	210-3	426-2	213-3	413-2	169-3	349-2	169-3	365-2	122-3	277-2	151-3	255-2
0.320	585-2	427-3	793-2	426-3	838-2	263-3	510-2	261-3	517-2	210-3	426-2	213-3	413-2	169-3	349-2	169-3	365-2	122-3	277-2	151-3	255-2
0.340	909-2	556-3	100-1	492-3	102-1	247-3	427-2	220-3	457-2	210-3	366-2	185-3	389-2	165-3	319-2	149-3	306-2	144-3	281-2	138-3	266-2
0.360	767-2	604-3	104-1	476-3	105-1	393-3	649-2	312-3	687-2	303-3	503-2	238-3	529-2	214-3	371-2	172-3	374-2	163-3	289-2	141-3	286-2
0.380	153-1	109-2	174-1	772-3	180-1	563-3	890-2	400-3	930-2	420-3	629-2	296-3	695-2	276-3	440-2	200-3	457-2	184-3	304-2	143-3	304-2
0.400	214-1	145-2	225-1	930-3	228-1	830-3	124-1	533-3	130-1	525-3	811-2	339-3	824-2	318-3	502-2	209-3	500-2	203-3	303-2	142-3	319-2
0.420	904-2	127-2	188-1	741-3	191-1	757-3	115-1	440-3	113-1	502-3	774-2	293-3	751-2	333-3	504-2	196-3	498-2	215-3	316-2	139-3	323-2
0.440	571-2	669-3	931-2	353-3	956-2	540-3	809-2	284-3	772-2	439-3	665-2	235-3	627-2	331-3	501-2	179-3	473-2	216-3	342-2	129-3	309-2
0.460	606-2	542-3	771-2	262-3	740-2	432-3	696-2	208-3	591-2	385-3	610-2	186-3	525-2	304-3	491-2	153-3	416-2	216-3	352-2	116-3	295-2
0.480	823-2	754-3	962-2	335-3	988-2	403-3	634-2	178-3	539-2	343-3	570-2	153-3	450-2	278-3	469-2	127-3	364-2	209-3	351-2	104-3	273-2
0.500	442-2	623-3	891-2	254-3	783-2	429-3	650-2	175-3	538-2	308-3	523-2	126-3	387-2	245-3	433-2	101-3	308-2	198-3	342-2	936-4	249-2
0.550	177-1	182-2	207-1	616-3	208-1	697-3	820-2	235-3	796-2	446-3	493-2	152-3	510-2	302-3	352-2	104-3	346-2	203-3	327-2	749-4	232-2
0.600	932-2	104-2	103-1	295-3	109-1	702-3	703-2	199-3	735-2	526-3	525-2	150-3	551-2	366-3	385-2	106-3	384-2	239-3	328-2	740-4	250-2
0.650	898-2	190-2	180-1	460-3	183-1	102-2	958-2	248-3	995-2	652-3	660-2	158-3	630-2	403-3	422-2	998-4	390-2	255-3	330-2	680-4	247-2
0.700	154-1	187-2	166-1	390-3	168-1	916-3	837-2	190-3	822-2	638-3	566-2	134-3	573-2	404-3	360-2	862-4	362-2	253-3	316-2	577-4	227-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N11E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

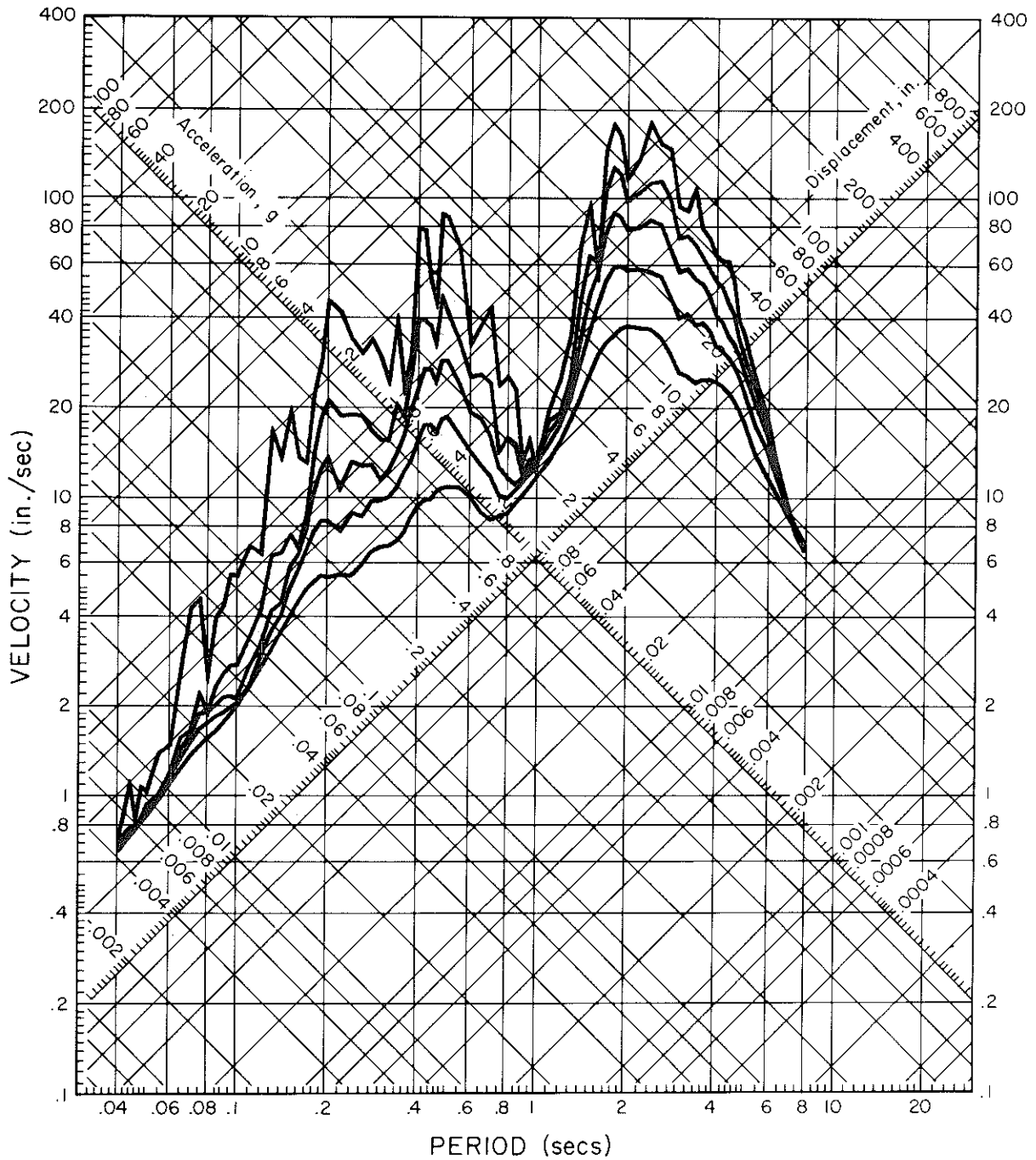


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N11E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SC AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
0.040	164-3	444-5	245-3	284-3	698-3	452-5	205-3	289-3	711-3	429-5	169-3	275-3	675-3	412-5	151-3	264-3	647-3	414-5	134-3	266-3	650-3	414-5	134-3	266-3	650-3	414-5	134-3	266-3	650-3	414-5	134-3	266-3	650-3	414-5	134-3	266-3	650-3												
0.042	319-3	575-5	367-3	333-3	860-3	493-5	209-3	286-3	738-3	476-5	176-3	277-3	713-3	460-5	161-3	267-3	683-3	459-5	146-3	268-3	687-3	459-5	146-3	268-3	687-3	459-5	146-3	268-3	687-3	459-5	146-3	268-3	687-3	459-5	146-3	268-3	687-3												
0.044	390-3	757-5	531-3	400-3	108-2	542-5	202-3	286-3	774-3	520-5	172-3	277-3	750-3	510-5	168-3	269-3	728-3	508-5	157-3	270-3	725-3	508-5	157-3	270-3	725-3	508-5	157-3	270-3	725-3	508-5	157-3	270-3	725-3	508-5	157-3	270-3	725-3												
0.046	255-3	608-5	268-3	294-3	830-3	564-5	188-3	272-3	771-3	575-5	176-3	275-3	778-3	560-5	175-3	271-3	765-3	560-5	172-3	273-3	765-3	560-5	172-3	273-3	765-3	560-5	172-3	273-3	765-3	560-5	172-3	273-3	765-3	560-5	172-3	273-3	765-3												
0.048	162-3	814-5	544-3	361-3	106-2	645-5	231-3	286-3	844-3	633-5	198-3	281-3	828-3	618-5	192-3	274-3	805-3	616-5	190-3	276-3	806-3	616-5	190-3	276-3	806-3	616-5	190-3	276-3	806-3	616-5	190-3	276-3	806-3	616-5	190-3	276-3	806-3												
0.050	348-3	813-5	416-3	332-3	102-2	734-5	290-3	300-3	923-3	700-5	227-3	286-3	880-3	679-5	216-3	277-3	854-3	676-5	209-3	279-3	850-3	676-5	209-3	279-3	850-3	676-5	209-3	279-3	850-3	676-5	209-3	279-3	850-3	676-5	209-3	279-3	850-3												
0.055	597-3	121-4	825-3	410-3	138-2	884-5	363-3	299-3	101-2	878-5	319-3	296-3	100-2	868-5	292-3	294-3	991-3	845-5	264-3	289-3	965-3	845-5	264-3	289-3	965-3	845-5	264-3	289-3	965-3	845-5	264-3	289-3	965-3	845-5	264-3	289-3	965-3												
0.060	942-3	140-4	100-2	399-3	147-2	114-4	375-3	325-3	119-2	114-4	389-3	322-3	119-2	110-4	367-3	314-3	115-2	104-4	331-3	302-3	109-2	115-2	104-4	331-3	302-3	109-2	115-2	104-4	331-3	302-3	109-2	115-2	104-4	331-3	302-3	109-2	115-2	104-4	331-3	302-3	109-2								
0.065	119-2	275-4	202-2	667-3	266-2	161-4	747-3	390-3	156-2	147-4	547-3	358-3	142-2	137-4	461-3	336-3	132-2	127-4	404-3	312-3	122-2	142-2	137-4	461-3	336-3	132-2	127-4	404-3	312-3	122-2	142-2	137-4	461-3	336-3	132-2	127-4	404-3	312-3	122-2										
0.070	328-2	475-4	377-2	993-3	427-2	183-4	926-3	380-3	164-2	177-4	687-3	374-3	159-2	166-4	535-3	352-3	149-2	150-4	475-3	320-3	135-2	166-4	535-3	35																									

IIIIH16 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N11E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

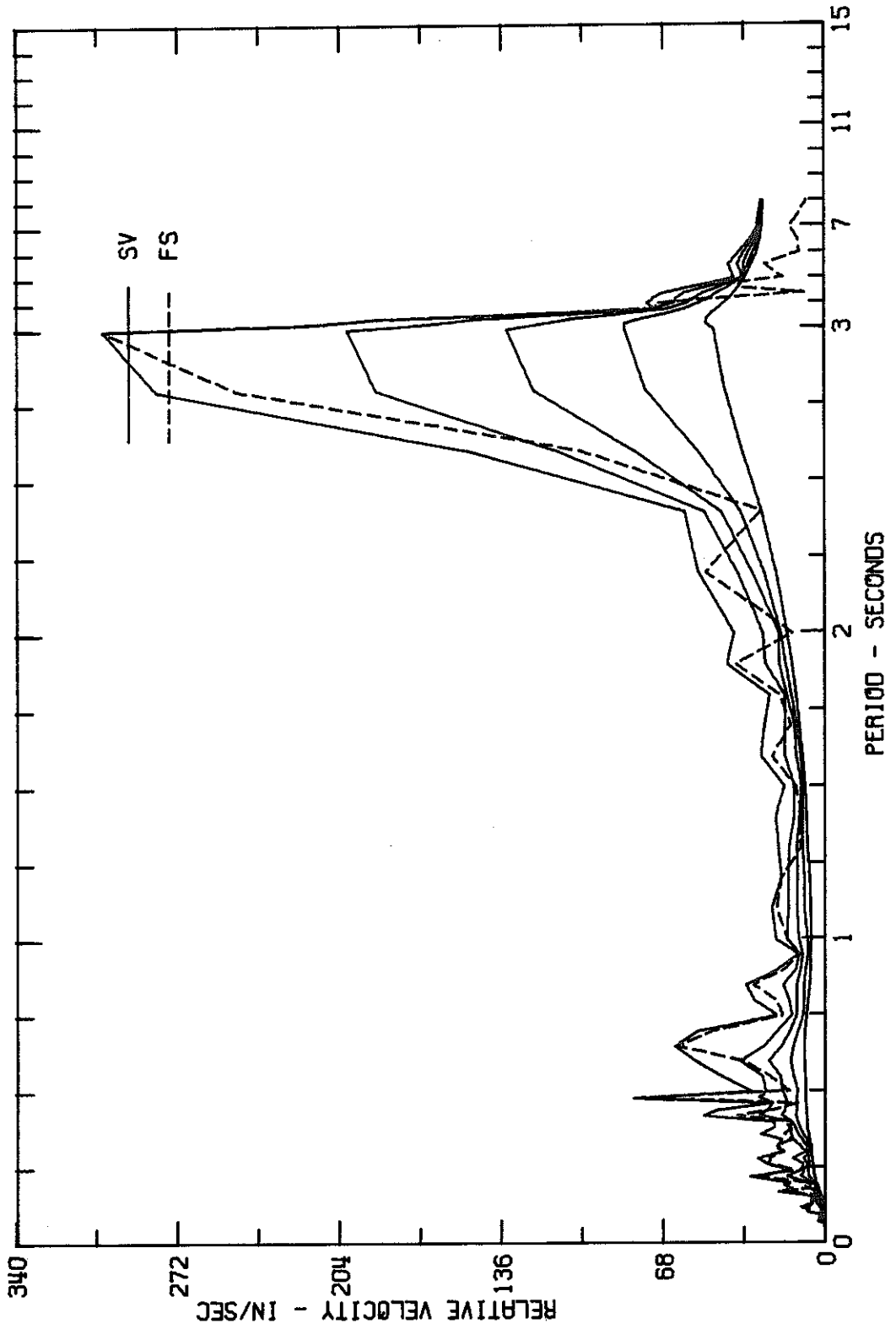
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.75	204-1	283-2	226-1	516-3	237-1	170-2	122-1	309-3	142-1	150-2	103-1	274-3	126-1	121-2	995-2	222-3	101-1
0.80	243-1	325-2	254-1	520-3	255-1	203-2	145-1	325-3	160-1	148-2	104-1	239-3	116-1	127-2	993-2	205-3	998-2
0.85	181-1	311-2	233-1	441-3	230-1	204-2	156-1	289-3	151-1	150-2	112-1	214-3	111-1	143-2	844-2	205-3	106-1
0.90	100-1	188-2	126-1	238-3	131-1	172-2	105-1	217-3	120-1	168-2	901-2	213-3	117-1	162-2	828-2	207-3	113-1
0.95	635-2	238-2	128-1	269-3	157-1	203-2	102-1	231-3	134-1	194-2	880-2	221-3	128-1	184-2	843-2	211-3	122-1
1.00	308-2	196-2	102-1	201-3	123-1	211-2	912-2	216-3	133-1	215-2	901-2	221-3	135-1	208-2	882-2	215-3	131-1
1.10	665-2	343-2	155-1	290-3	196-1	318-2	120-1	269-3	182-1	291-2	111-1	247-3	166-1	265-2	106-1	228-3	151-1
1.20	825-2	477-2	212-1	339-3	250-1	370-2	191-1	263-3	194-1	358-2	165-1	255-3	187-1	337-2	133-1	242-3	176-1
1.30	148-1	726-2	306-1	439-3	351-1	526-2	257-1	318-3	254-1	468-2	201-1	284-3	226-1	447-2	146-1	273-3	216-1
1.40	429-1	157-1	639-1	822-3	707-1	103-1	395-1	541-3	464-1	756-2	262-1	396-3	339-1	632-2	217-1	333-3	283-1
1.50	722-1	229-1	891-1	104-2	959-1	155-1	592-1	705-3	649-1	114-1	419-1	523-3	480-1	866-2	312-1	399-3	362-1
1.60	299-1	146-1	504-1	583-3	573-1	157-1	551-1	627-3	616-1	146-1	499-1	585-3	573-1	114-1	382-1	465-3	450-1
1.70	127 0	397-1	138 0	140-2	147 0	293-1	102 0	103-2	108 0	210-1	726-1	747-3	777-1	145-1	480-1	524-3	538-1
1.80	150 0	519-1	172 0	164-2	181 0	371-1	125 0	117-2	129 0	259-1	841-1	824-3	907-1	170-1	544-1	545-3	593-1
1.90	152 0	496-1	159 0	140-2	164 0	367-1	117 0	104-2	121 0	264-1	842-1	753-3	875-1	182-1	561-1	524-3	601-1
2.00	815-1	377-1	115 0	965-3	118 0	314-1	951-1	805-3	989-1	251-1	759-1	646-3	791-1	185-1	561-1	481-3	582-1
2.20	108 0	483-1	135 0	102-2	138 0	372-1	102 0	787-3	106 0	282-1	765-1	600-3	807-1	205-1	559-1	441-3	586-1
2.40	182 0	698-1	182 0	124-2	182 0	439-1	111 0	780-3	114 0	327-1	819-1	583-3	856-1	219-1	570-1	398-3	575-1
2.60	127 0	641-1	154 0	970-3	155 0	481-1	114 0	729-3	116 0	342-1	833-1	520-3	828-1	229-1	571-1	356-3	555-1
2.80	149 0	666-1	149 0	868-3	149 0	445-1	101 0	581-3	999-1	305-1	741-1	400-3	685-1	210-1	529-1	280-3	471-1
3.00	944-1	453-1	103 0	515-3	949-1	355-1	847-1	403-3	743-1	274-1	660-1	313-3	574-1	192-1	498-1	225-3	403-1
3.20	660-1	468-1	103 0	468-3	920-1	386-1	853-1	385-3	757-1	299-1	665-1	301-3	588-1	212-1	484-1	218-3	417-1
3.40	986-1	591-1	113 0	523-3	109 0	382-1	827-1	339-3	707-1	294-1	671-1	262-3	544-1	205-1	508-1	188-3	380-1
3.60	656-1	458-1	843-1	361-3	799-1	367-1	738-1	290-3	641-1	300-1	617-1	238-3	523-1	223-1	481-1	182-3	389-1
3.80	446-1	448-1	779-1	317-3	741-1	352-1	623-1	250-3	583-1	288-1	509-1	205-3	476-1	219-1	418-1	161-3	363-1
4.00	391-1	415-1	743-1	265-3	652-1	341-1	611-1	218-3	536-1	262-1	513-1	169-3	411-1	205-1	408-1	136-3	323-1
4.20	554-1	418-1	708-1	242-3	626-1	341-1	602-1	198-3	511-1	260-1	505-1	152-3	390-1	208-1	408-1	125-3	311-1
4.40	622-1	435-1	653-1	230-3	622-1	315-1	560-1	167-3	450-1	244-1	473-1	130-3	349-1	208-1	390-1	114-3	297-1
4.60	500-1	390-1	583-1	188-3	533-1	302-1	498-1	146-3	413-1	240-1	413-1	117-3	329-1	203-1	357-1	102-3	277-1
4.80	292-1	298-1	545-1	132-3	391-1	259-1	473-1	115-3	339-1	229-1	404-1	102-3	300-1	193-1	357-1	902-4	253-1
5.00	143-1	281-1	457-1	115-3	353-1	236-1	427-1	967-4	296-1	210-1	392-1	866-4	263-1	179-1	349-1	774-4	225-1
5.50	123-1	218-1	362-1	737-4	249-1	200-1	350-1	680-4	229-1	179-1	333-1	612-4	204-1	151-1	308-1	532-4	173-1
6.00	107-1	179-1	263-1	510-4	188-1	169-1	265-1	481-4	177-1	155-1	267-1	447-4	163-1	138-1	264-1	414-4	144-1
6.50	557-2	134-1	218-1	325-4	130-1	132-1	214-1	321-4	127-1	127-1	224-1	312-4	123-1	120-1	231-1	312-4	116-1
7.00	122-2	109-1	223-1	228-4	984-2	107-1	217-1	224-4	962-2	106-1	211-1	224-4	951-2	105-1	211-1	238-4	943-2
7.50	245-2	903-2	205-1	164-4	757-2	906-2	205-1	165-4	759-2	935-2	204-1	172-4	784-2	954-2	203-1	191-4	799-2
8.00	168-2	846-2	192-1	135-4	664-2	866-2	195-1	138-4	680-2	888-2	197-1	144-4	698-2	906-2	198-1	162-4	711-2

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11JH116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N79W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

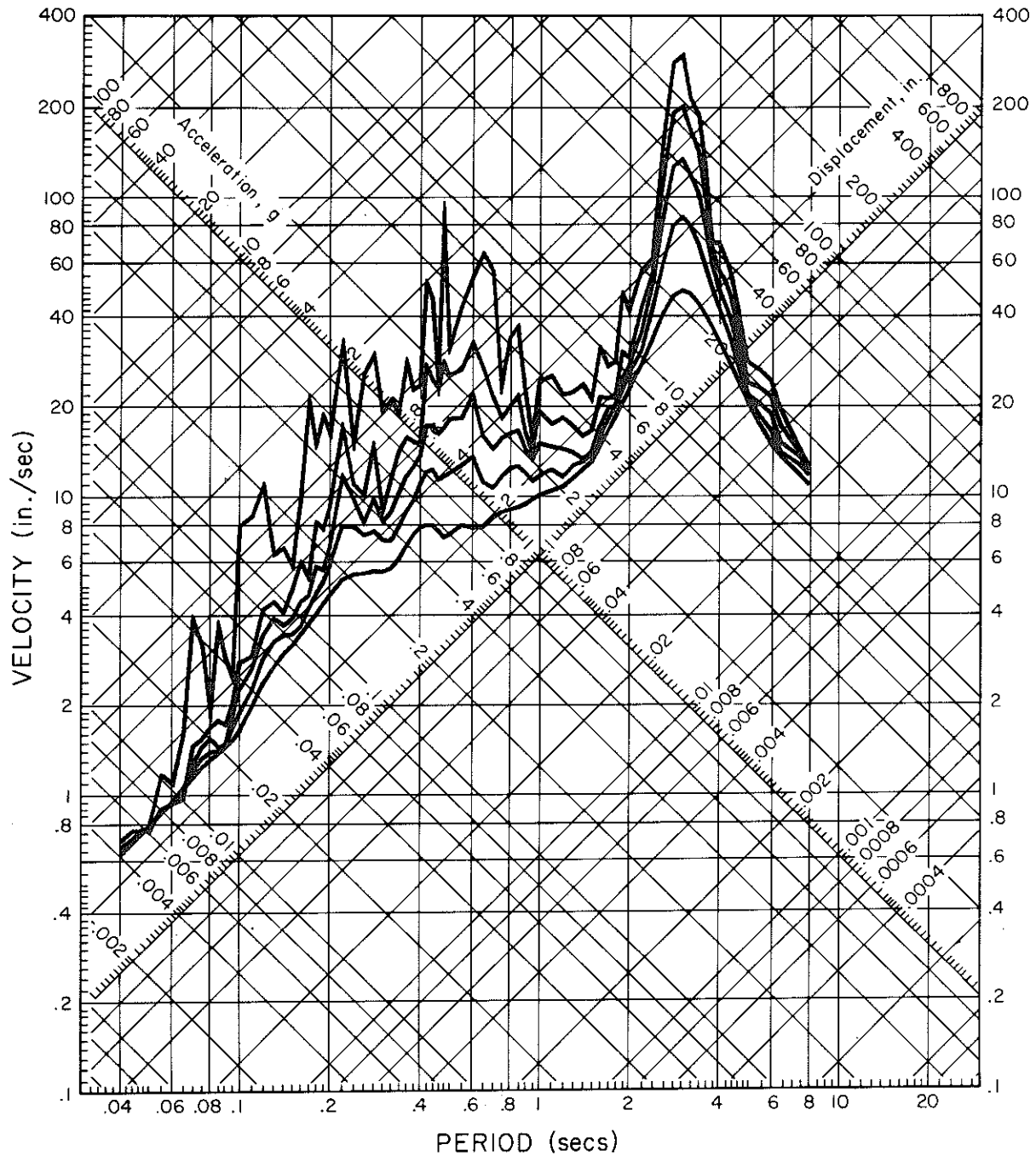


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N79W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N79W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	198-3	445-5	200-3	284-3	699-3	423-5	157-3	270-3	665-3	413-5	135-3	264-3	649-3	406-5	123-3	259-3	638-3
0.042	125-3	487-5	177-3	282-3	728-3	459-5	136-3	266-3	687-3	454-5	136-3	263-3	680-3	448-5	132-3	260-3	671-3
0.044	285-3	532-5	225-3	281-3	760-3	499-5	136-3	263-3	712-3	496-5	135-3	262-3	706-3	491-5	139-3	260-3	701-3
0.046	218-3	553-5	192-3	267-3	756-3	545-5	176-3	263-3	744-3	539-5	157-3	260-3	738-3	535-5	149-3	259-3	731-3
0.048	649-4	588-5	242-3	261-3	769-3	583-5	181-3	258-3	763-3	581-5	173-3	258-3	761-3	580-5	166-3	258-3	760-3
0.050	126-3	616-5	331-3	252-3	774-3	597-5	208-3	244-3	751-3	625-5	190-3	255-3	786-3	630-5	186-3	257-3	792-3
0.055	716-3	102-4	734-3	347-3	117-2	789-5	306-3	267-3	902-3	768-5	259-3	259-3	877-3	765-5	241-3	258-3	874-3
0.060	497-3	104-4	627-3	296-3	109-2	897-5	325-3	254-3	939-3	905-5	298-3	257-3	947-3	913-5	295-3	259-3	956-3
0.065	975-3	165-4	117-2	400-3	159-2	100-4	448-3	243-3	972-3	107-4	366-3	261-3	104-2	109-4	359-3	266-3	106-2
0.070	307-2	436-4	348-2	910-3	391-2	163-4	702-3	341-3	146-2	142-4	524-3	298-3	127-2	134-4	446-3	280-3	120-2
0.075	243-2	381-4	282-2	693-3	319-2	184-4	835-3	337-3	154-2	173-4	610-3	314-3	145-2	159-4	488-3	288-3	133-2
0.080	752-3	241-4	151-2	385-3	189-2	216-4	810-3	345-3	169-2	196-4	689-3	314-3	154-2	178-4	540-3	285-3	139-2
0.085	307-2	503-4	305-2	712-3	372-2	241-4	965-3	342-3	178-2	196-4	735-3	278-3	145-2	190-4	614-3	271-3	141-2
0.090	122-2	408-4	243-2	516-3	285-2	247-4	114-2	313-3	172-2	213-4	842-3	270-3	149-2	212-4	671-3	267-3	148-2
0.095	135-2	374-4	185-2	424-3	247-2	313-4	120-2	354-3	207-2	282-4	951-3	322-3	186-2	255-4	798-3	292-3	169-2
0.100	745-2	128-3	716-2	131-2	806-2	444-4	196-2	458-3	279-2	362-4	137-2	367-3	227-2	301-4	996-3	306-3	189-2
0.110	692-2	152-3	835-2	128-2	870-2	514-4	214-2	433-3	294-2	468-4	186-2	397-3	267-2	336-4	141-2	334-3	226-2
0.120	882-2	209-3	105-1	148-2	109-1	806-4	278-2	572-3	422-2	664-4	217-2	471-3	348-2	552-4	167-2	394-3	289-2
0.130	305-2	132-3	573-2	804-3	642-2	925-4	281-2	558-3	447-2	814-4	227-2	494-3	393-2	681-4	175-2	416-3	329-2
0.140	472-2	150-3	638-2	786-3	676-2	909-4	349-2	475-3	408-2	830-4	257-2	437-3	372-2	769-4	193-2	402-3	345-2
0.150	443-3	139-3	490-2	635-3	585-2	117-3	392-2	536-3	493-2	943-4	309-2	435-3	365-2	833-4	226-2	385-3	348-2
0.160	644-2	250-3	924-2	100-2	984-2	154-3	512-2	616-3	606-2	114-3	363-2	458-3	450-2	946-4	261-2	383-3	371-2
0.170	175-1	567-3	201-1	200-2	209-1	145-3	410-2	515-3	536-2	127-3	346-2	452-3	469-2	114-3	318-2	409-3	424-2
0.180	673-2	431-3	142-1	136-2	150-1	237-3	709-2	747-3	782-2	168-3	472-2	537-3	589-2	136-3	380-2	440-3	475-2
0.190	971-2	569-3	174-1	161-2	188-1	237-3	660-2	674-3	784-2	173-3	470-2	491-3	573-2	158-3	424-2	451-3	523-2
0.200	831-2	515-3	150-1	131-2	161-1	300-3	848-2	775-3	943-2	219-3	578-2	557-3	690-2	189-3	486-2	492-3	593-2
0.220	300-1	113-2	319-1	240-2	324-1	602-3	165-1	127-2	172-1	414-3	108-1	874-3	118-1	282-3	739-2	597-3	806-2
0.240	132-1	579-3	147-1	102-2	151-1	422-3	108-1	752-3	110-1	375-3	922-2	670-3	982-2	306-3	750-2	539-3	801-2
0.260	235-1	108-2	246-1	164-2	262-1	421-3	939-2	639-3	101-1	340-3	753-2	518-3	822-2	309-3	711-2	490-3	747-2
0.280	236-1	134-2	287-1	175-2	301-1	660-3	141-1	866-3	148-1	441-3	927-2	578-3	989-2	344-3	737-2	448-3	772-2
0.300	175-1	919-3	181-1	104-2	192-1	430-3	829-2	489-3	901-2	396-3	727-2	451-3	830-2	342-3	706-2	399-3	718-2
0.320	205-1	108-2	206-1	108-2	121-1	591-3	108-1	592-3	116-1	459-3	798-2	465-3	902-2	365-3	706-2	376-3	717-2
0.340	141-1	103-2	185-1	918-3	191-1	778-3	137-1	692-3	143-1	564-3	101-1	497-3	104-1	434-3	804-2	387-3	802-2
0.360	173-1	163-2	273-1	128-2	285-1	911-3	149-1	722-3	159-1	679-3	117-1	543-3	118-1	517-3	954-2	422-3	902-2
0.380	148-1	138-2	215-1	981-3	229-1	923-3	147-1	653-3	152-1	770-3	130-1	548-3	127-1	594-3	109-1	429-3	982-2
0.400	172-1	151-2	214-1	968-3	238-1	960-3	144-1	616-3	150-1	882-3	146-1	564-3	138-1	709-3	119-1	460-3	111-1
0.420	373-1	349-2	513-1	202-2	523-1	184-2	279-1	106-2	275-1	116-2	185-1	680-3	174-1	815-3	127-1	490-3	121-1
0.440	208-1	323-2	449-1	170-2	451-1	172-2	241-1	915-3	246-1	121-2	173-1	651-3	173-1	869-3	121-1	466-3	124-1
0.460	116-1	181-2	234-1	878-3	248-1	170-2	223-1	825-3	232-1	119-2	160-1	576-3	163-1	838-3	123-1	416-3	114-1
0.480	806-1	628-2	807-1	278-2	822-1	217-2	282-1	967-3	284-1	131-2	171-1	584-3	171-1	898-3	119-1	405-3	117-1
0.500	151-1	250-2	308-1	102-2	314-1	203-2	251-1	830-3	255-1	145-2	181-1	596-3	183-1	962-3	117-1	401-3	120-1
0.550	236-1	379-2	440-1	128-2	433-1	235-2	267-1	797-3	268-1	161-2	193-1	548-3	184-1	112-2	139-1	388-3	128-1
0.600	343-1	522-2	545-1	148-2	547-1	316-2	357-1	902-3	331-1	211-2	240-1	600-3	221-1	131-2	148-1	379-3	137-1
0.650	618-1	681-2	633-1	165-2	659-1	280-2	257-1	680-3	271-1	164-2	183-1	398-3	159-1	116-2	133-1	288-3	112-1
0.700	469-1	638-2	533-1	133-2	573-1	241-2	198-1	504-3	216-1	161-2	146-1	338-3	145-1	120-2	113-1	253-3	107-1

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

IIII116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP N79W

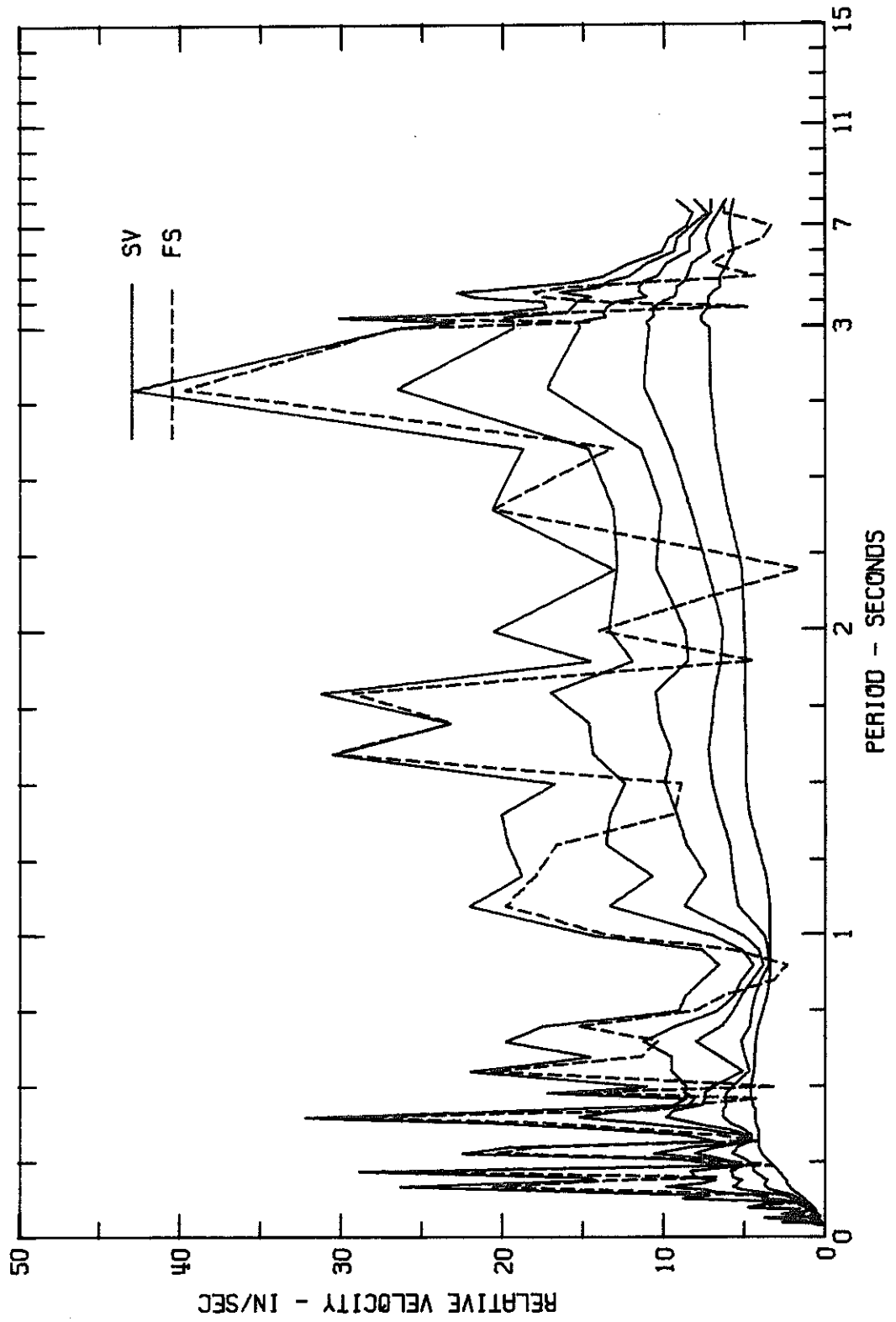
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV		
0.75	177-1	278-2	206-1	506-3	233-1	219-2	140-1	399-3	184-1	188-2	121-1	345-3	158-1	141-2	936-2	259-3	118-1		
0.80	207-1	438-2	300-1	701-3	344-1	259-2	154-1	414-3	203-1	209-2	121-1	335-3	164-1	160-2	902-2	259-3	125-1		
0.85	304-1	506-2	333-1	717-3	374-1	296-2	177-1	419-3	219-1	227-2	121-1	322-3	167-1	171-2	915-2	246-3	127-1		
0.90	170-1	324-2	199-1	410-3	226-1	235-2	124-1	297-3	164-1	206-2	104-1	261-3	143-1	172-2	843-2	220-3	120-1		
0.95	109-1	238-2	115-1	270-3	158-1	213-2	109-1	241-3	141-1	201-2	981-2	229-3	133-1	171-2	747-2	197-3	113-1		
1.00	159-1	387-2	208-1	395-3	243-1	308-2	159-1	315-3	193-1	240-2	113-1	246-3	150-1	188-2	765-2	194-3	118-1		
1.10	203-1	447-2	227-1	378-3	255-1	307-2	156-1	260-3	175-1	258-2	119-1	219-3	147-1	217-2	888-2	185-3	124-1		
1.20	184-1	420-2	183-1	298-3	220-1	353-2	155-1	251-3	185-1	277-2	118-1	197-3	145-1	224-2	890-2	161-3	117-1		
1.30	105-1	466-2	198-1	282-3	225-1	357-2	152-1	216-3	172-1	292-2	121-1	177-3	141-1	265-2	974-2	162-3	128-1		
1.40	988-2	533-2	209-1	278-3	239-1	357-2	131-1	186-3	160-1	299-2	108-1	156-3	134-1	293-2	965-2	154-3	131-1		
1.50	124-1	505-2	171-1	229-3	211-1	401-2	129-1	182-3	168-1	339-2	100-1	154-3	142-1	331-2	948-2	152-3	139-1		
1.60	224-1	805-2	268-1	321-3	316-1	552-2	172-1	221-3	217-1	443-2	125-1	177-3	174-1	409-2	104-1	164-3	160-1		
1.70	144-1	743-2	251-1	262-3	274-1	580-2	168-1	205-3	214-1	538-2	132-1	191-3	199-1	497-2	119-1	176-3	183-1		
1.80	194-1	819-2	232-1	258-3	285-1	619-2	170-1	195-3	216-1	581-2	165-1	183-3	203-1	584-2	145-1	185-3	203-1		
1.90	375-1	144-1	413-1	410-3	479-1	927-2	252-1	262-3	306-1	758-2	194-1	215-3	250-1	699-2	168-1	199-3	231-1		
2.00	134-1	133-1	383-1	342-3	420-1	932-2	264-1	238-3	292-1	880-2	197-1	225-3	276-1	827-2	188-1	213-3	260-1		
2.20	503-1	201-1	536-1	426-3	576-1	151-1	370-1	319-3	431-1	125-1	311-1	265-3	357-1	108-1	260-1	232-3	310-1		
2.40	270-1	241-1	594-1	429-3	633-1	215-1	510-1	383-3	565-1	199-1	441-1	355-3	521-1	164-1	358-1	297-3	431-1		
2.60	102 0	651-1	149 0	985-3	157 0	491-1	112 0	744-3	118 0	357-1	802-1	542-3	863-1	254-1	538-1	390-3	614-1		
2.80	247 0	128 0	280 0	167-2	287 0	871-1	188 0	113-2	195 0	578-1	122 0	758-3	129 0	362-1	755-1	480-3	813-1		
3.00	303 0	145 0	303 0	164-2	303 0	980-1	201 0	111-2	205 0	655-1	134 0	748-3	137 0	415-1	845-1	482-3	871-1		
3.20	215 0	109 0	215 0	109-2	215 0	861-1	166 0	861-3	169 0	614-1	118 0	616-3	120 0	409-1	842-1	417-3	804-1		
3.40	190 0	103 0	190 0	913-3	190 0	781-1	147 0	692-3	144 0	565-1	106 0	503-3	104 0	381-1	761-1	344-3	704-1		
3.60	128 0	735-1	128 0	580-3	128 0	588-1	105 0	465-3	102 0	465-1	853-1	369-3	604-1	301-1	585-1	219-3	592-1		
3.80	710-1	430-1	714-1	304-3	711-1	410-1	720-1	290-3	678-1	365-1	656-1	260-3	604-1	301-1	585-1	219-3	592-1		
4.00	709-1	451-1	744-1	288-3	709-1	364-1	634-1	233-3	572-1	314-1	574-1	202-3	493-1	273-1	525-1	180-3	430-1		
4.20	423-1	425-1	721-1	246-3	636-1	352-1	624-1	204-3	527-1	295-1	545-1	172-3	441-1	252-1	481-1	150-3	377-1		
4.40	864-2	388-1	680-1	204-3	554-1	323-1	588-1	171-3	462-1	272-1	513-1	145-3	389-1	233-1	452-1	127-3	333-1		
4.60	359-1	326-1	589-1	157-3	445-1	276-1	515-1	133-3	377-1	238-1	453-1	116-3	325-1	208-1	412-1	104-3	284-1		
4.80	358-1	274-1	474-1	121-3	358-1	237-1	419-1	105-3	311-1	206-1	395-1	929-4	270-1	188-1	375-1	870-4	246-1		
5.00	176-1	225-1	384-1	921-4	282-1	191-1	340-1	786-4	241-1	173-1	339-1	721-4	218-1	177-1	350-1	758-4	222-1		
5.50	254-1	233-1	406-1	788-4	266-1	203-1	369-1	689-4	232-1	179-1	340-1	615-4	205-1	162-1	321-1	579-4	185-1		
6.00	106-1	233-1	362-1	662-4	244-1	206-1	340-1	588-4	216-1	181-1	319-1	523-4	189-1	158-1	301-1	480-4	166-1		
6.50	114-1	200-1	313-1	485-4	194-1	177-1	301-1	430-4	171-1	156-1	287-1	386-4	151-1	145-1	272-1	380-4	140-1		
7.00	147-1	184-1	285-1	385-4	165-1	172-1	275-1	360-4	154-1	159-1	264-1	340-4	143-1	149-1	262-1	336-4	134-1		
7.50	110-1	173-1	277-1	314-4	145-1	168-1	272-1	307-4	141-1	161-1	267-1	301-4	135-1	152-1	263-1	301-4	127-1		
8.00	796-2	161-1	267-1	258-4	127-1	160-1	266-1	257-4	125-1	157-1	264-1	258-4	123-1	150-1	261-1	265-4	118-1		

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

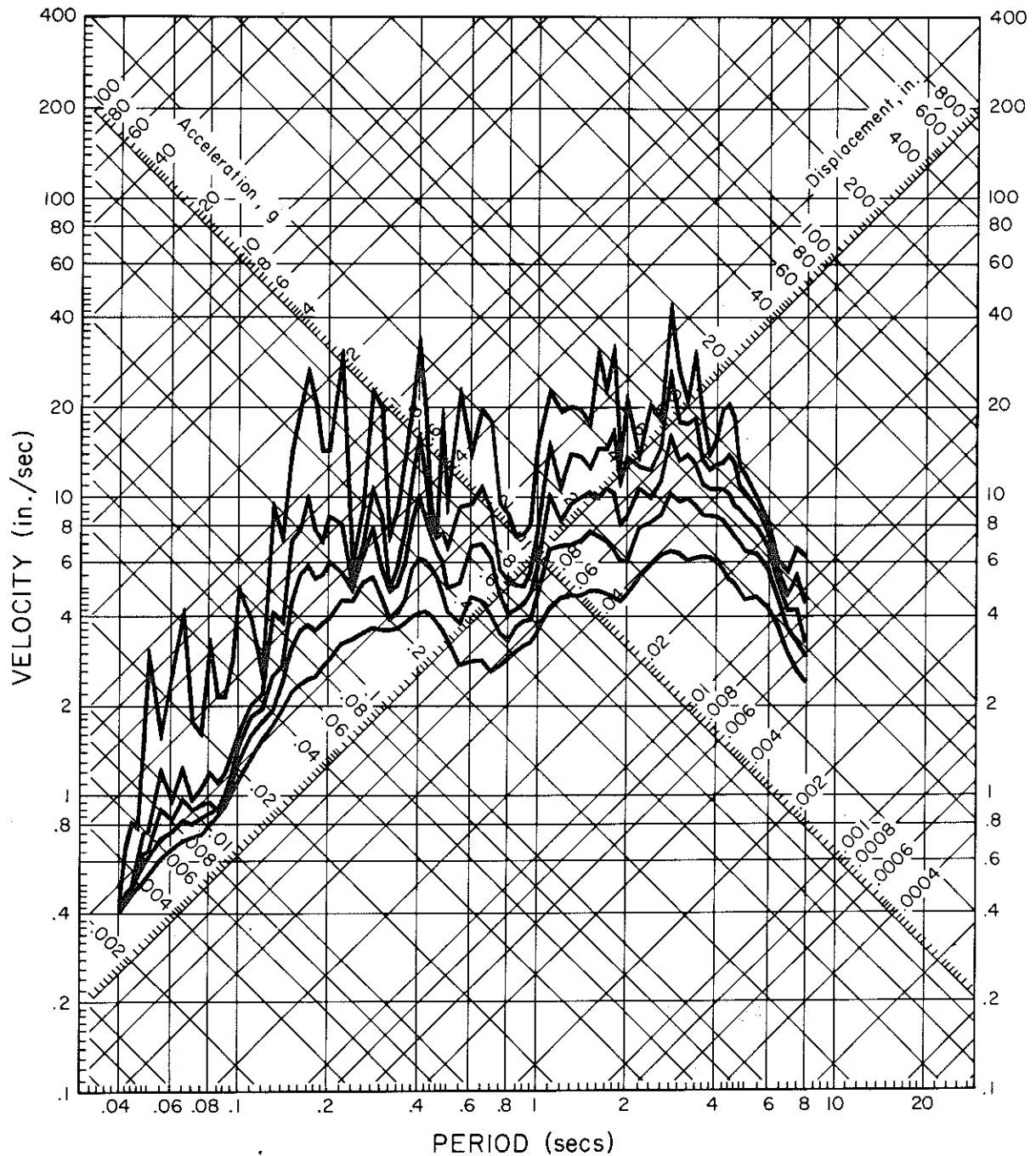


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH116 71.026.0 15250 VENTURA BLVD., 7TH FLOOR, LOS ANGELES, CAL. COMP DOWN

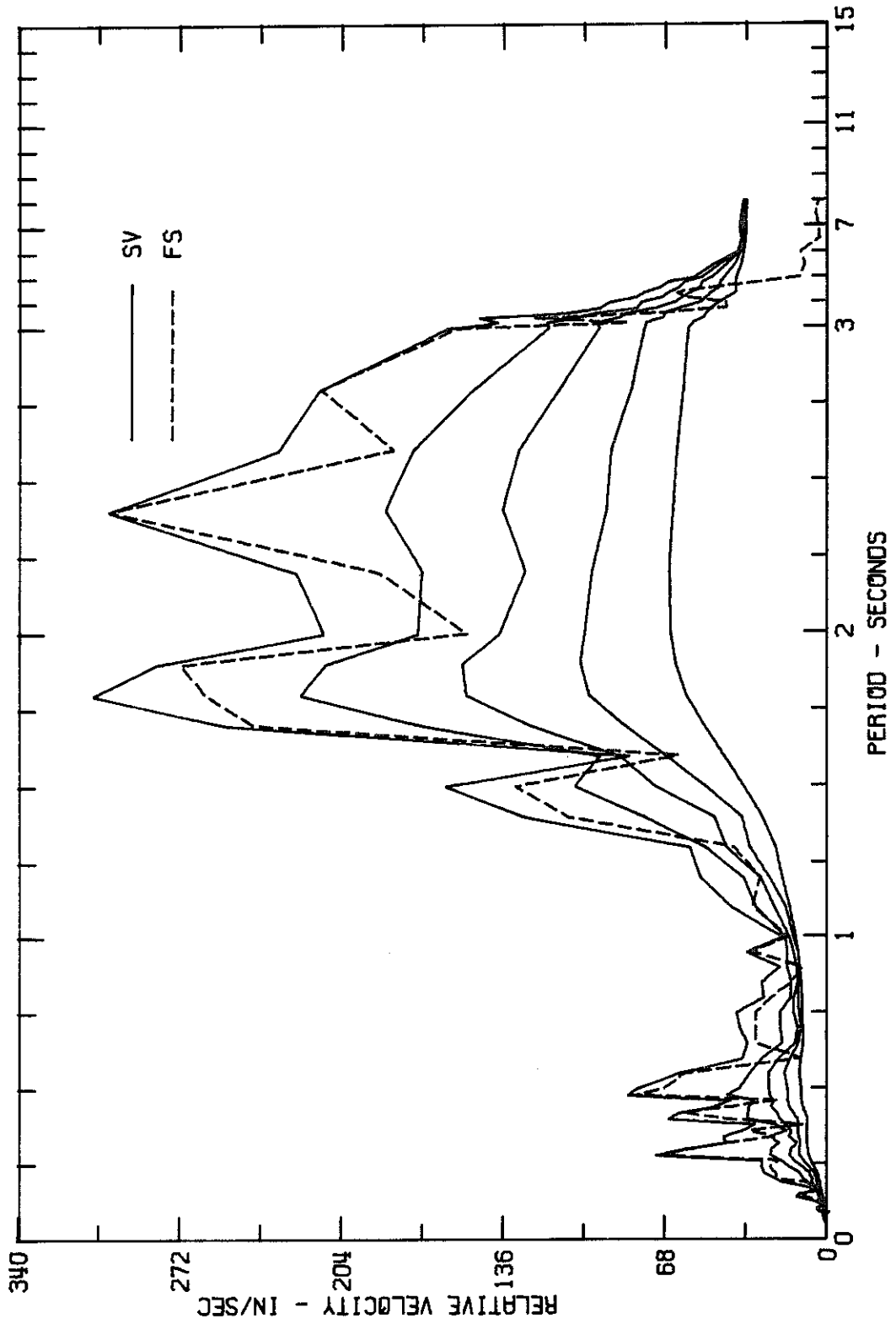
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	803-2	113-2	906-2	206-3	952-2	683-3	665-2	123-3	572-2	564-3	574-2	103-3	473-2	421-3	459-2	778-4	353-2	327-3	389-2	630-4	274-2
0.80	634-2	112-2	869-2	179-3	883-2	672-3	567-2	107-3	528-2	522-3	521-2	839-4	410-2	423-3	437-2	690-4	332-2	369-3	363-2	632-4	290-2
0.85	324-2	100-2	766-2	142-3	743-2	691-3	521-2	977-4	511-2	574-3	456-2	816-4	424-2	501-3	400-2	723-4	370-2	414-3	347-2	632-4	306-2
0.90	239-2	108-2	662-2	136-3	757-2	725-3	448-2	915-4	506-2	634-3	388-2	804-4	443-2	555-3	350-2	714-4	387-2	457-3	342-2	624-4	319-2
0.95	565-2	123-2	768-2	140-3	819-2	858-3	522-2	972-4	567-2	729-3	417-2	829-4	482-2	593-3	357-2	684-4	392-2	497-3	344-2	611-4	329-2
1.00	135-1	239-2	143-1	244-3	150-1	121-2	702-2	124-3	765-2	926-3	513-2	950-4	582-2	750-3	384-2	776-4	471-2	565-3	346-2	604-4	355-2
1.10	198-1	399-2	221-1	337-3	228-1	263-2	134-1	223-3	150-1	178-2	876-2	151-3	102-1	118-2	547-2	101-3	676-2	753-3	348-2	669-4	430-2
1.20	179-1	371-2	188-1	264-3	194-1	206-2	107-1	146-3	108-1	160-2	741-2	114-3	840-2	132-2	576-2	958-4	695-2	890-3	370-2	670-4	466-2
1.30	166-1	420-2	197-1	254-3	203-1	292-2	136-1	176-3	141-1	198-2	869-2	120-3	957-2	144-2	598-2	887-4	697-2	977-3	425-2	627-4	472-2
1.40	935-2	441-2	201-1	230-3	198-1	307-2	133-1	160-3	137-1	224-2	927-2	117-3	100-1	161-2	656-2	856-4	725-2	105-2	476-2	584-4	471-2
1.50	893-2	423-2	167-1	192-3	177-1	301-2	124-1	137-3	126-1	250-2	998-2	114-3	104-1	185-2	705-2	860-4	776-2	117-2	498-2	576-4	491-2
1.60	305-1	778-2	305-1	310-3	305-1	376-2	144-1	150-3	147-1	255-2	959-2	102-3	100-1	190-2	725-2	777-4	748-2	125-2	490-2	544-4	493-2
1.70	232-1	627-2	232-1	222-3	232-1	395-2	147-1	139-3	146-1	291-2	103-1	103-3	107-1	195-2	704-2	703-4	721-2	130-2	504-2	500-4	481-2
1.80	293-1	891-2	313-1	281-3	311-1	479-2	170-1	151-3	167-1	298-2	105-1	947-4	104-1	193-2	687-2	622-4	674-2	134-2	502-2	454-4	468-2
1.90	448-2	412-2	145-1	117-3	136-1	341-2	119-1	968-4	112-1	248-2	852-2	707-4	820-2	187-2	648-2	543-4	620-2	136-2	496-2	419-4	452-2
2.00	140-1	682-2	206-1	174-3	214-1	436-2	134-1	111-3	137-1	278-2	872-2	715-4	873-2	195-2	638-2	509-4	613-2	152-2	505-2	420-4	478-2
2.20	162-2	482-2	130-1	101-3	137-1	447-2	129-1	945-4	127-1	377-2	105-1	802-4	107-1	280-2	738-2	603-4	800-2	190-2	524-2	426-4	544-2
2.40	206-1	789-2	206-1	140-3	206-1	475-2															

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP N11E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

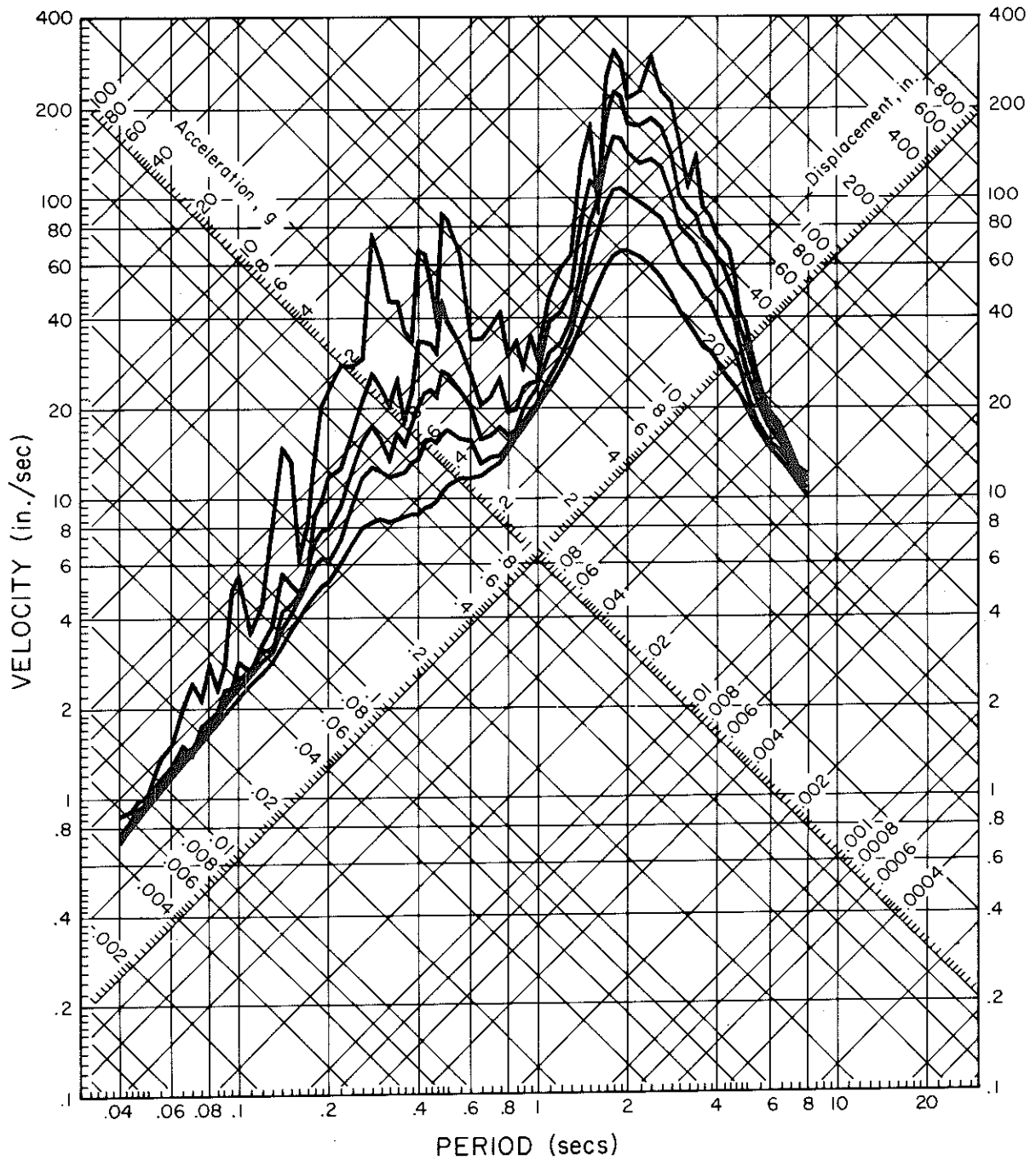


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP N11E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIHH117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP N11E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

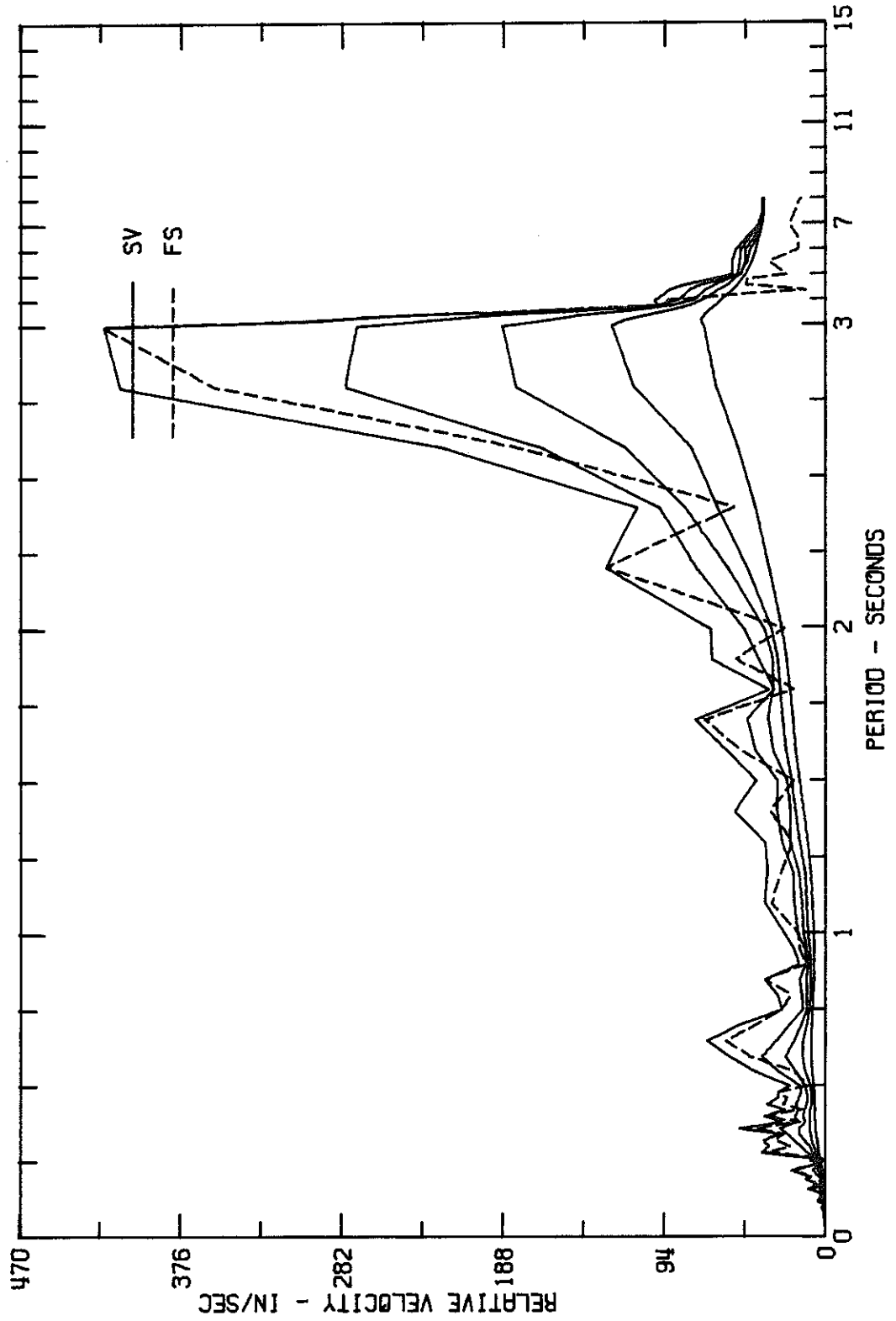
DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	301-1	504-2	382-1	917-3	422-1	301-2	197-1	549-3	252-1	207-2	144-1	378-3	173-1	167-2	120-1	307-3	139-1	158-2	105-1	295-3	132-1
0.80	236-1	385-2	268-1	615-3	302-1	249-2	153-1	398-3	195-1	207-2	139-1	332-3	163-1	194-2	123-1	312-3	152-1	185-2	108-1	302-3	146-1
0.85	150-1	457-2	276-1	647-3	338-1	269-2	152-1	381-3	198-1	229-2	125-1	325-3	169-1	226-2	120-1	321-3	167-1	216-2	111-1	311-3	159-1
0.90	104-1	393-2	199-1	497-3	274-1	338-2	171-1	426-3	236-1	288-2	131-1	365-3	201-1	260-2	118-1	331-3	181-1	248-2	116-1	320-3	173-1
0.95	317-1	532-2	340-1	603-3	352-1	370-2	169-1	420-3	245-1	332-2	144-1	378-3	219-1	298-2	125-1	339-3	197-1	283-2	124-1	329-3	187-1
1.00	164-1	472-2	189-1	483-3	296-1	393-2	177-1	403-3	247-1	375-2	160-1	386-3	236-1	335-2	144-1	345-3	210-1	322-2	133-1	338-3	202-1
1.10	313-1	844-2	406-1	714-3	482-1	690-2	304-1	584-3	394-1	541-2	224-1	459-3	309-1	446-2	179-1	380-3	254-1	412-2	160-1	359-3	235-1
1.20	280-1	113-1	537-1	803-3	592-1	807-2	355-1	574-3	423-1	637-2	283-1	454-3	333-1	567-2	246-1	406-3	297-1	518-2	193-1	380-3	271-1
1.30	392-1	135-1	579-1	821-3	656-1	104-1	510-1	631-3	503-1	821-2	426-1	499-3	397-1	740-2	326-1	452-3	357-1	656-2	220-1	414-3	317-1
1.40	109	0 296-1	127	0 154-2	133	0 185-1	770-1	968-3	832-1	128-1	477-1	672-3	576-1	105-1	363-1	557-3	473-1	842-2	277-1	460-3	377-1
1.50	131	0 419-1	160	0 190-2	175	0 279-1	106	0 126-2	116	0 202-1	726-1	925-3	848-1	150-1	515-1	693-3	630-1	107-1	356-1	508-3	448-1
1.60	624-1	247-1	827-1	987-3	970-1	275-1	952-1	110-2	108	0 255-1	871-1	102-2	100	0 199-1	676-1	806-3	782-1	133-1	435-1	560-3	524-1
1.70	240	0 692-1	252	0 245-2	256	0 507-1	171	0 179-2	187	0 374-1	125	0 133-2	138	0 259-1	856-1	934-3	960-1	161-1	522-1	604-3	596-1
1.80	261	0 907-1	308	0 286-2	316	0 661-1	221	0 209-2	230	0 468-1	152	0 148-2	163	0 312-1	100	0 100-2	109	0 186-1	557-1	624-3	649-1
1.90	271	0 877-1	282	0 248-2	290	0 670-1	210	0 190-2	221	0 487-1	137	0 138-2	161	0 332-1	103	0 960-3	110	0 204-1	642-1	618-3	674-1
2.00	151	0 697-1	211	0 178-2	218	0 573-1	172	0 146-2	180	0 462-1	137	0 118-2	145	0 335-1	101	0 873-3	105	0 215-1	662-1	591-3	676-1
2.20	188	0 811-1	223	0 171-2	231	0 621-1	170	0 131-2	177	0 466-1	126	0 989-3	133	0 343-1	987-1	740-3	981-1	226-1	664-1	516-3	646-1
2.40	302	0 115	0 302	0 205-2	302	0 719-1	185	0 127-2	188	0 525-1	136	0 937-3	137	0 353-1	925-1	640-3	926-1	229-1	647-1	443-3	601-1
2.60	182	0 955-1	230	0 144-2	230	0 724-1	173	0 109-2	175	0 534-1	129	0 812-3	129	0 359-1	904-1	554-3	868-1	227-1	630-1	378-3	549-1
2.80	212	0 948-1	212	0 123-2	212	0 645-1	148	0 842-3	144	0 467-1	112	0 613-3	104	0 326-1	819-1	435-3	731-1	217-1	605-1	316-3	488-1
3.00	155	0 740-1	159	0 841-3	155	0 492-1	117	0 559-3	103	0 385-1	967-1	387-3	756-1	289-1	760-1	298-3	568-1	196-1	564-1	225-3	386-1
3.20	844-1	571-1	138	0 571-3	112	0 478-1	117	0 478-3	940-1	385-1	967-1	387-3	756-1	289-1	760-1	298-3	568-1	196-1	564-1	225-3	386-1
3.40	123	0 757-1	146	0 669-3	139	0 482-1	105	0 427-3	891-1	384-1	876-1	343-3	710-1	285-1	692-1	261-3	526-1	191-1	522-1	197-3	353-1
3.60	682-1	539-1	108	0 425-3	941-1	430-1	974-1	339-3	750-1	355-1	838-1	282-3	620-1	271-1	681-1	221-3	473-1	183-1	507-1	165-3	320-1
3.80	425-1	528-1	954-1	374-3	874-1	426-1	797-1	302-3	705-1	349-1	720-1	249-3	577-1	273-1	617-1	202-3	452-1	188-1	487-1	156-3	311-1
4.00	428-1	485-1	917-1	310-3	762-1	407-1	782-1	260-3	639-1	323-1	641-1	208-3	507-1	257-1	531-1	172-3	404-1	184-1	454-1	141-3	289-1
4.20	593-1	481-1	805-1	279-3	721-1	402-1	695-1	233-3	602-1	320-1	611-1	187-3	479-1	240-1	511-1	145-3	359-1	177-1	418-1	123-3	265-1
4.40	635-1	473-1	770-1	250-3	676-1	370-1	667-1	195-3	528-1	299-1	573-1	160-3	428-1	230-1	488-1	127-3	329-1	174-1	385-1	111-3	249-1
4.60	489-1	407-1	706-1	197-3	556-1	349-1	623-1	169-3	476-1	288-1	536-1	141-3	393-1	227-1	452-1	115-3	311-1	173-1	385-1	102-3	236-1
4.80	273-1	315-1	666-1	140-3	413-1	281-1	599-1	125-3	368-1	246-1	526-1	110-3	322-1	209-1	451-1	984-4	273-1	169-1	386-1	933-4	222-1
5.00	116-1	309-1	557-1	126-3	388-1	266-1	524-1	109-3	334-1	219-1	482-1	915-4	276-1	187-1	433-1	809-4	235-1	163-1	382-1	845-4	205-1
5.50	985-2	223-1	476-1	754-4	254-1	206-1	452-1	699-4	235-1	184-1	423-1	634-4	211-1	156-1	389-1	575-4	178-1	149-1	362-1	666-4	170-1
6.00	113-1	186-1	378-1	531-4	195-1	178-1	364-1	508-4	186-1	166-1	368-1	482-4	174-1	147-1	365-1	450-4	154-1	143-1	353-1	558-4	149-1
6.50	364-2	184-1	360-1	446-4	178-1	172-1	354-1	420-4	167-1	160-1	349-1	401-4	155-1	149-1	346-1	405-4	144-1	141-1	346-1	487-4	136-1
7.00	402-2	168-1	372-1	351-4	151-1	163-1	365-1	342-4	146-1	155-1	356-1	337-4	140-1	147-1	346-1	349-4	132-1	138-1	341-1	429-4	124-1
7.50	528-2	151-1	361-1	276-4	127-1	147-1	357-1	269-4	123-1	141-1	351-1	270-4	118-1	139-1	343-1	297-4	116-1	134-1	340-1	391-4	112-1
8.00	374-2	153-1	350-1	245-4	120-1	149-1	348-1	241-4	117-1	144-1	345-1	244-4	113-1	138-1	343-1	271-4	108-1	130-1	339-1	359-4	102-1

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP N79W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

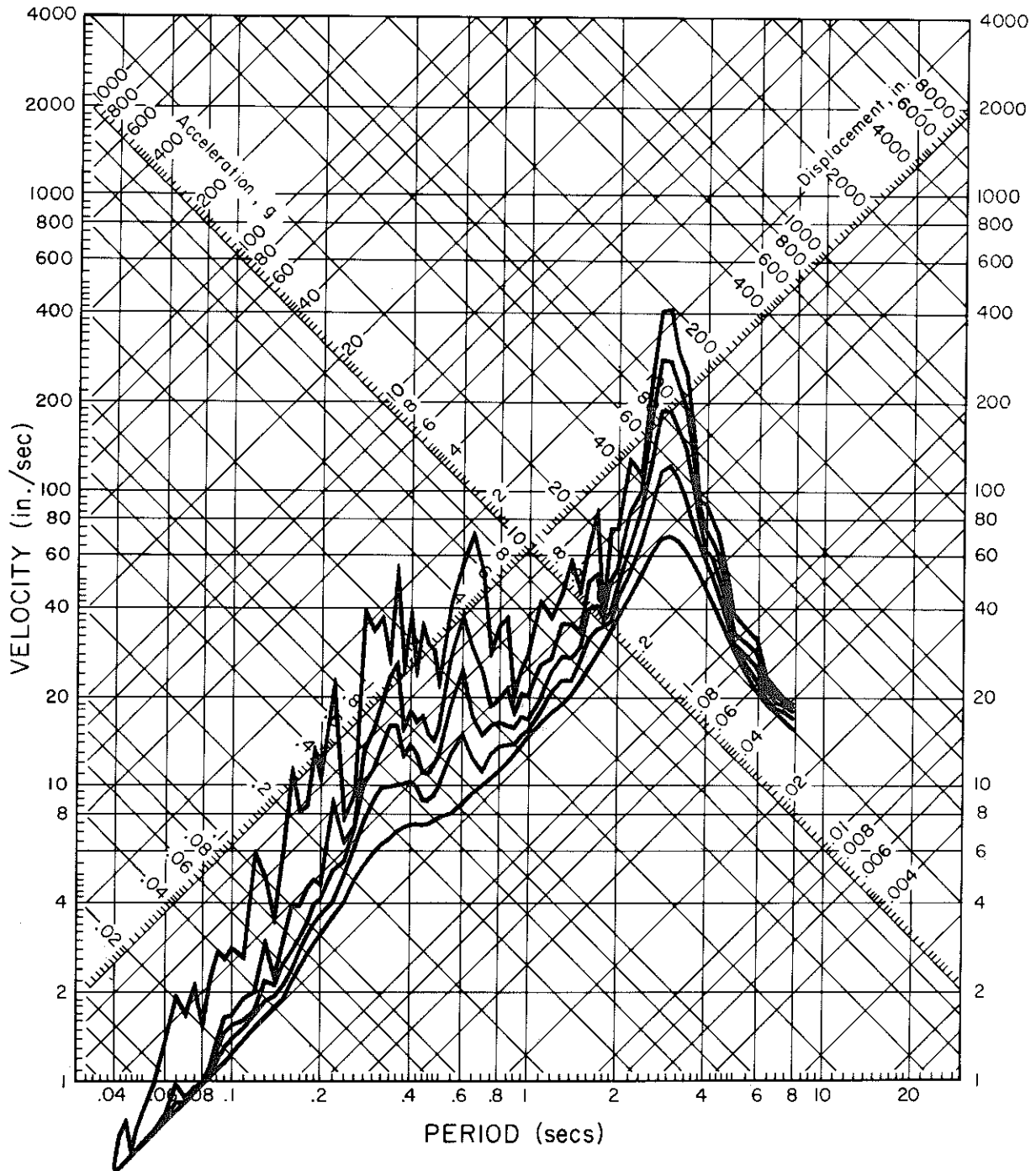


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP N79W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H117 71.025.0 15250 VENTURA BLVD., ROOF, LCS ANGELES, CAL. COMP N79W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	920-4	324-5	166-3	207-3	510-3	312-5	764-4	199-3	491-3	311-5	638-4	199-3	489-3	311-5	587-4	199-3	489-3
0.042	644-4	444-4	257-3	257-3	665-3	344-5	782-4	199-3	515-3	343-5	658-4	199-3	513-3	343-5	641-4	199-3	514-3
0.044	877-4	514-5	218-3	271-3	734-3	379-5	918-4	200-3	541-3	378-5	808-4	199-3	540-3	378-5	730-4	199-3	539-3
0.046	934-4	426-5	203-3	205-3	582-3	415-5	123-3	201-3	568-3	414-5	966-4	200-3	566-3	414-5	848-4	200-3	565-3
0.048	176-3	539-5	233-3	239-3	705-3	453-5	125-3	201-3	594-3	453-5	105-3	201-3	593-3	451-5	962-4	200-3	591-3
0.050	240-3	625-5	268-3	255-3	786-3	497-5	127-3	203-3	624-3	493-5	115-3	202-3	620-3	491-5	106-3	200-3	617-3
0.055	316-3	875-5	420-3	295-3	999-3	603-5	136-3	204-3	689-3	599-5	132-3	202-3	685-3	595-5	133-3	201-3	679-3
0.060	479-3	133-4	841-3	379-3	139-2	751-5	239-3	213-3	786-3	721-5	200-3	205-3	755-3	706-5	169-3	200-3	739-3
0.065	117-2	201-4	126-2	486-3	392-3	194-2	102-4	402-3	986-3	887-5	287-3	215-3	857-3	825-5	207-3	199-3	858-3
0.070	989-3	187-4	944-3	392-3	168-2	987-5	355-3	205-3	886-3	955-5	297-3	219-3	886-3	955-5	241-3	199-3	858-3
0.075	132-2	253-4	141-2	461-3	316-3	155-2	126-4	410-3	995-3	125-4	329-3	200-3	983-3	125-4	301-3	200-3	982-3
0.080	641-3	198-4	953-3	316-3	277-2	203-4	822-3	208-3	962-3	110-4	434-3	205-3	108-2	142-4	385-3	202-3	105-2
0.085	109-2	305-4	142-2	431-3	225-2	153-4	518-3	217-3	113-2	147-4	581-3	236-3	130-2	170-4	473-3	217-3	118-2
0.090	139-2	397-4	176-2	501-3	277-2	252-4	816-3	285-3	166-2	223-4	666-3	253-3	147-2	199-4	534-3	227-3	131-2
0.095	137-2	394-4	198-2	447-3	261-2	252-4	822-3	285-3	166-2	223-4	666-3	253-3	147-2	199-4	534-3	227-3	131-2
0.100	169-2	453-4	191-2	464-3	285-2	268-4	816-3	274-3	168-2	248-4	692-3	256-3	156-2	224-4	561-3	231-3	140-2
0.110	640-3	462-4	181-2	391-3	264-2	337-4	100-2	284-3	192-2	284-3	780-3	239-3	175-2	325-4	817-3	230-3	170-2
0.120	432-2	102-3	397-2	621-3	496-2	616-4	192-2	271-3	297-2	475-4	118-2	250-3	213-2	390-4	945-3	238-3	188-2
0.130	227-2	103-3	397-2	621-3	496-2	616-4	192-2	271-3	297-2	475-4	118-2	250-3	213-2	390-4	945-3	238-3	188-2
0.140	198-2	796-4	294-2	415-3	357-2	505-4	152-2	263-3	227-2	475-4	118-2	250-3	213-2	390-4	945-3	238-3	188-2
0.150	499-2	148-3	488-2	673-3	620-2	719-4	216-2	326-3	301-2	604-4	167-2	276-3	253-2	513-4	125-2	234-3	214-2
0.160	758-2	284-3	106-1	113-2	815-2	101-3	347-2	406-3	397-2	711-4	214-2	284-3	279-2	615-4	150-2	248-3	241-2
0.170	453-2	220-3	660-2	781-3	815-2	106-3	316-2	377-3	394-2	839-4	237-2	299-3	310-2	752-4	171-2	268-3	278-2
0.180	650-2	246-3	734-2	776-3	859-2	130-3	367-2	410-3	454-2	988-4	282-2	312-3	345-2	998-4	198-2	284-3	313-2
0.190	104-1	399-3	119-1	113-2	132-1	146-3	367-2	417-3	485-2	121-3	281-2	347-3	401-2	105-3	213-2	300-3	347-2
0.200	884-2	340-3	900-2	870-3	106-1	148-3	382-2	379-3	465-2	133-3	425-2	344-3	419-2	117-3	239-2	303-3	368-2
0.220	185-1	768-3	203-1	162-2	219-1	308-3	784-2	653-3	880-2	183-3	471-2	385-3	522-2	191-3	366-2	339-3	502-2
0.240	548-2	298-3	629-2	529-3	780-2	247-3	493-2	442-3	645-2	214-3	458-3	558-2	732-2	259-3	489-2	404-3	628-2
0.260	184-2	388-3	838-2	587-3	938-2	305-3	592-2	459-3	738-2	303-3	558-2	597-3	102-1	343-3	615-2	454-3	770-2
0.280	347-1	175-2	378-1	229-2	394-1	600-3	116-1	778-3	134-1	458-3	845-2	597-3	102-1	343-3	615-2	454-3	770-2
0.300	204-1	161-2	330-1	183-2	339-1	748-3	146-1	846-3	156-1	545-3	984-2	618-3	114-1	423-3	736-2	486-3	887-2
0.320	294-1	192-2	366-1	191-2	377-1	989-3	190-1	995-3	194-1	694-3	127-1	692-3	136-1	503-3	873-2	508-3	988-2
0.340	245-1	148-2	260-1	131-2	274-1	128-2	229-1	113-2	236-1	879-3	158-1	787-3	162-1	539-3	929-2	491-3	996-2
0.360	412-1	301-2	510-1	237-2	525-1	150-2	268-1	119-2	263-1	927-3	155-1	731-3	161-1	580-3	943-2	468-3	101-1
0.380	152-1	156-2	257-1	110-2	258-1	957-3	161-1	682-3	158-1	773-3	119-1	553-3	127-1	619-3	893-2	447-3	102-1
0.400	361-1	242-2	356-1	155-2	381-1	115-2	180-1	738-3	181-1	888-3	133-1	571-3	139-1	663-3	939-2	435-3	104-1
0.420	140-1	167-2	239-1	970-3	250-1	111-2	163-1	647-3	166-1	865-3	123-1	499-3	129-1	666-3	908-2	392-3	997-2
0.440	253-1	247-2	346-1	130-2	353-1	122-2	177-1	644-3	174-1	881-3	112-1	415-3	111-1	629-3	813-2	339-3	988-2
0.460	227-1	223-2	278-1	107-2	305-1	110-2	156-1	534-3	150-1	810-3	107-1	392-3	110-1	654-3	825-2	321-3	927-2
0.480	278-1	223-2	276-1	990-3	291-1	109-2	142-1	486-3	143-1	912-3	114-1	404-3	119-1	708-3	869-2	321-3	927-2
0.500	998-2	180-2	210-1	737-3	226-1	127-2	150-1	521-3	160-1	102-2	122-1	417-3	128-1	796-3	903-2	332-3	100-1
0.550	187-1	374-2	419-1	126-2	427-1	248-2	284-1	839-3	284-1	168-2	182-1	575-3	192-1	114-2	125-1	395-3	130-1
0.600	443-1	550-2	566-1	156-2	576-1	363-2	371-1	103-2	380-1	238-2	235-1	679-3	249-1	143-2	136-1	416-3	150-1
0.650	583-1	749-2	693-1	181-2	724-1	303-2	288-1	735-3	293-1	179-2	186-1	436-3	173-1	129-2	134-1	321-3	125-1
0.700	413-1	613-2	511-1	128-2	550-1	275-2	213-1	575-3	247-1	167-2	145-1	349-3	150-1	125-2	109-1	264-3	112-1

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

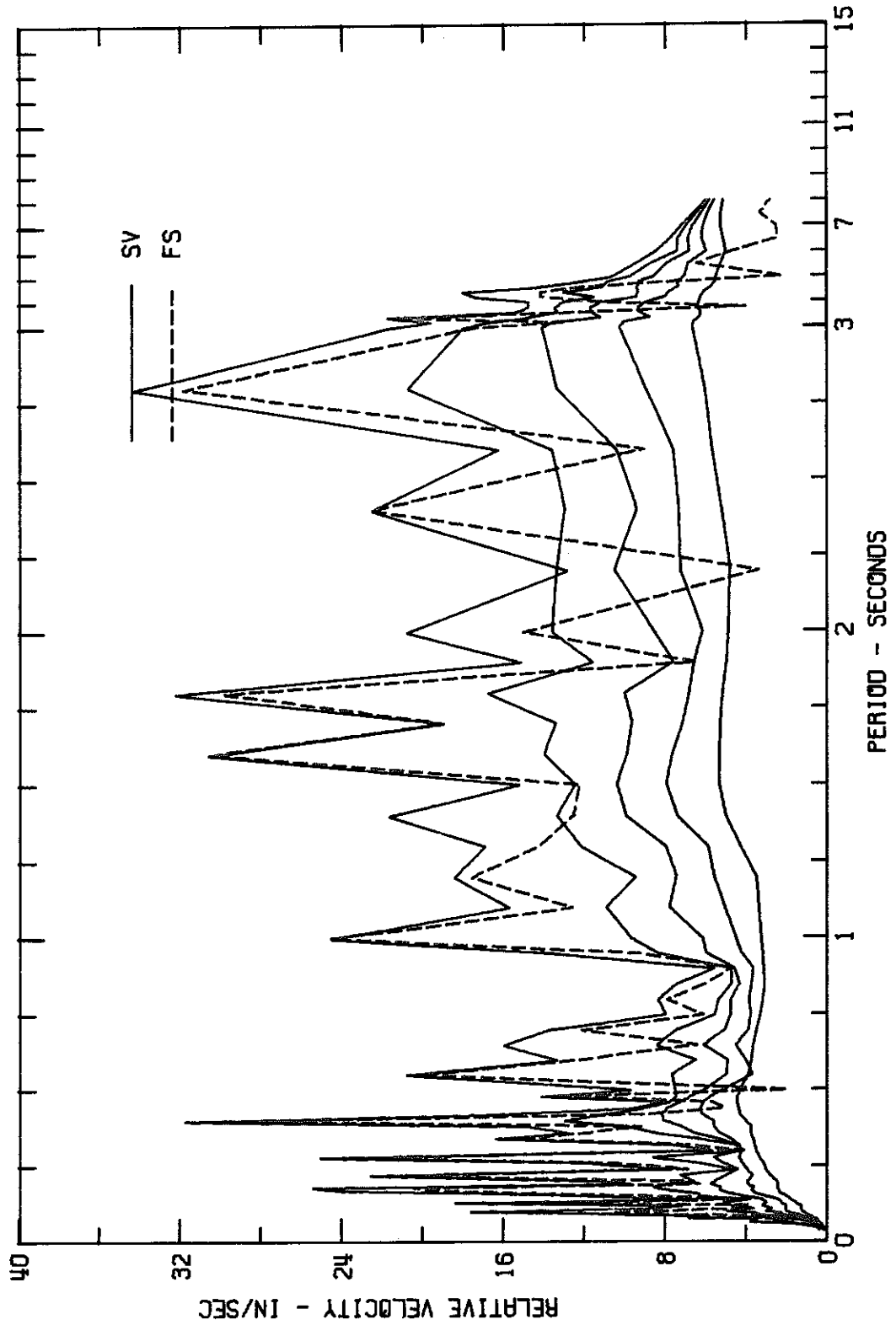
COMP N79W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	255-1	342-2	256-1	622-3	286-1	224-2	131-1	408-3	188-1	194-2	108-1	354-3	162-1	155-2	971-2	285-3	130-1	127-2	785-2	236-3	107-1
0.80	206-1	451-2	283-1	721-3	354-1	255-2	144-1	408-3	200-1	212-2	109-1	339-3	166-1	175-2	886-2	282-3	137-1	144-2	745-2	234-3	113-1
0.85	354-1	510-2	353-1	722-3	377-1	294-2	157-1	417-3	217-1	219-2	114-1	312-3	162-1	188-2	846-2	269-3	139-1	163-2	693-2	235-3	120-1
0.90	109-1	291-2	157-1	367-3	203-1	257-2	114-1	325-3	179-1	228-2	103-1	289-3	159-1	200-2	892-2	255-3	139-1	185-2	687-2	238-3	129-1
0.95	156-1	384-2	189-1	435-3	254-1	315-2	123-1	357-3	208-1	262-2	115-1	298-3	173-1	227-2	967-2	259-3	150-1	210-2	685-2	243-3	139-1
1.00	158-1	453-2	239-1	463-3	284-1	326-2	165-1	333-3	204-1	271-2	133-1	278-3	170-1	249-2	105-1	256-3	156-1	235-2	745-2	246-3	148-1
1.10	317-1	749-2	360-1	633-3	428-1	456-2	190-1	385-3	260-1	352-2	144-1	298-3	201-1	316-2	115-1	268-3	180-1	289-2	843-2	250-3	165-1
1.20	258-1	717-2	342-1	509-3	375-1	526-2	197-1	374-3	275-1	473-2	164-1	337-3	247-1	403-2	125-1	289-3	211-1	343-2	928-2	250-3	179-1
1.30	104-1	946-2	358-1	572-3	457-1	745-2	260-1	451-3	360-1	578-2	213-1	351-3	279-1	480-2	158-1	293-3	232-1	396-2	111-1	246-3	191-1
1.40	324-1	131-1	532-1	686-3	590-1	801-2	291-1	418-3	359-1	617-2	210-1	322-3	277-1	516-2	179-1	272-3	231-1	462-2	135-1	248-3	207-1
1.50	190-1	111-1	405-1	507-3	467-1	802-2	285-1	365-3	336-1	721-2	234-1	328-3	302-1	649-2	205-1	298-3	272-1	549-2	158-1	258-3	230-1
1.60	496-1	170-1	581-1	679-3	667-1	128-1	417-1	512-3	504-1	103-1	314-1	413-3	405-1	819-2	239-1	331-3	321-1	652-2	179-1	265-3	256-1
1.70	708-1	230-1	765-1	815-3	852-1	143-1	464-1	508-3	530-1	112-1	342-1	398-3	415-1	935-2	254-1	335-3	345-1	765-2	196-1	280-3	282-1
1.80	185-1	111-1	329-1	351-3	388-1	109-1	301-1	345-3	381-1	106-1	309-1	337-3	371-1	110-1	268-1	323-3	352-1	890-2	213-1	291-3	310-1
1.90	526-1	229-1	668-1	650-3	759-1	154-1	398-1	438-3	510-1	121-1	314-1	344-3	400-1	111-1	286-1	319-3	369-1	103-1	234-1	305-3	342-1
2.00	239-1	241-1	672-1	618-3	759-1	177-1	483-1	453-3	557-1	153-1	363-1	394-3	483-1	138-1	321-1	359-3	436-1	120-1	261-1	320-3	377-1
2.20	128 0	457-1	128 0	966-3	130 0	305-1	760-1	645-3	872-1	231-1	576-1	491-3	661-1	188-1	461-1	404-3	537-1	157-1	334-1	348-3	448-1
2.40	531-1	439-1	109 0	780-3	115 0	389-1	974-1	691-3	101 0	334-1	822-1	596-3	875 0	259-1	637-1	467-3	679-1	202-			

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

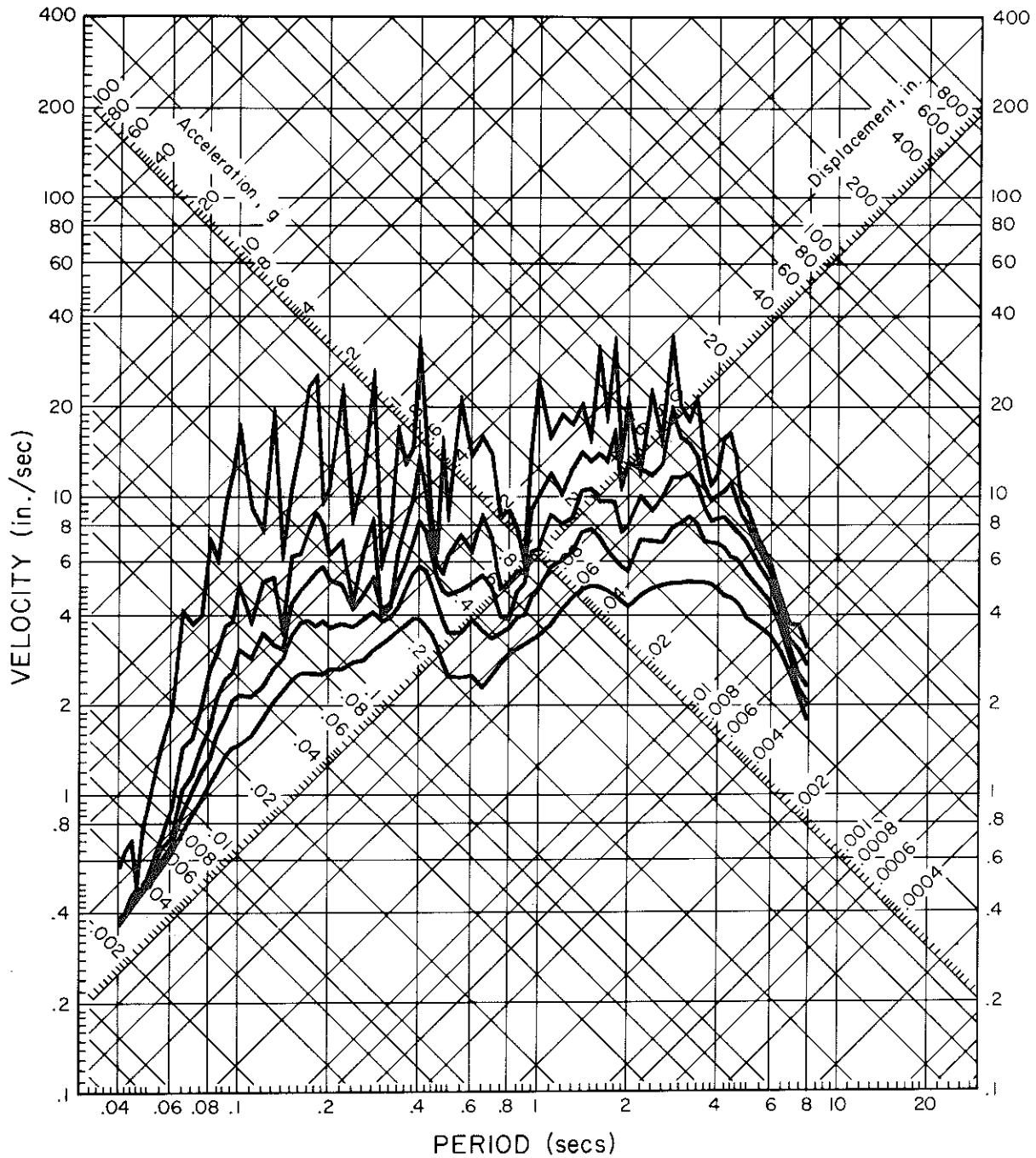


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111117 71.025.0 15250 VENTURA BLVD., ROOF, LOS ANGELES, CAL. COMP DOWN

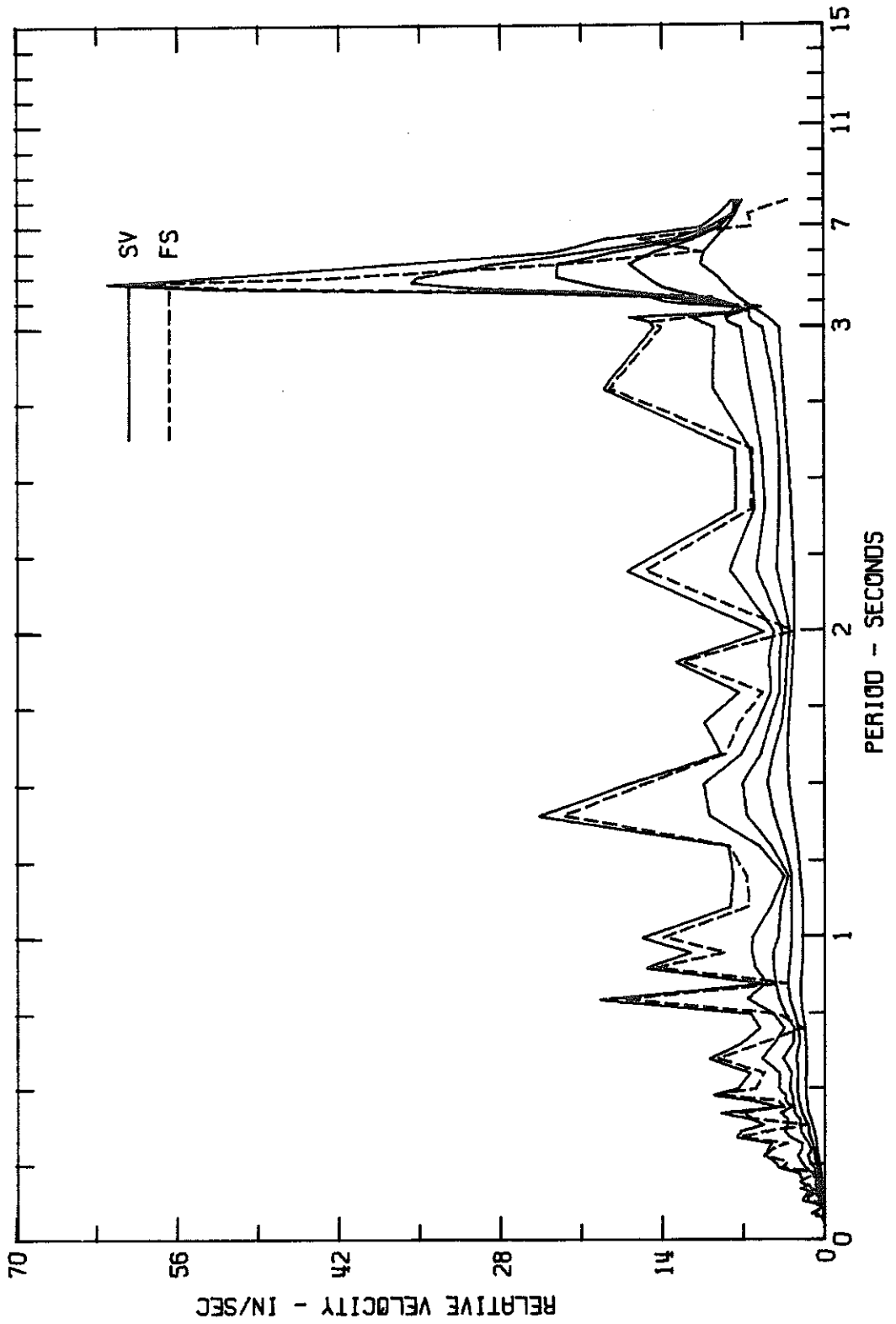
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	148-3	361-5	391-3	231-3	568-3	244-5	176-3	156-3	384-3	239-5	158-3	153-3	376-3	234-5	153-3	150-3	368-3
0.042	247-3	431-5	437-3	250-3	645-3	270-5	175-3	156-3	405-3	265-5	174-3	153-3	397-3	263-5	169-3	153-3	393-3
0.044	207-3	486-5	479-3	257-3	695-3	319-5	195-3	168-3	455-3	308-5	193-3	161-3	437-3	297-5	187-3	158-3	425-3
0.046	148-3	361-5	238-3	174-3	493-3	355-5	218-3	172-3	485-3	342-5	219-3	166-3	467-3	331-5	209-3	161-3	453-3
0.048	500-3	575-5	613-3	255-3	752-3	364-5	262-3	161-3	477-3	368-5	255-3	164-3	482-3	366-5	233-3	164-3	479-3
0.050	411-3	731-5	705-3	299-3	919-3	424-5	348-3	174-3	534-3	403-5	301-3	165-3	507-3	406-5	254-3	167-3	510-3
0.055	941-3	126-4	121-2	427-3	144-2	611-5	472-3	207-3	698-3	569-5	388-3	193-3	650-3	519-5	305-3	178-3	593-3
0.060	161-2	185-4	180-2	527-3	194-2	862-5	716-3	245-3	688-5	511-3	194-3	194-3	720-3	646-5	399-3	185-3	677-3
0.065	225-2	429-4	386-2	103-2	414-2	150-4	114-2	362-3	145-2	108-4	733-3	264-3	105-2	900-5	539-3	218-3	870-3
0.070	260-2	416-4	349-2	869-3	374-2	173-4	129-2	362-3	155-2	131-4	920-3	277-3	117-2	115-4	664-3	244-3	103-2
0.075	155-2	482-4	387-2	878-3	404-2	238-4	183-2	436-3	199-2	173-4	130-2	323-3	145-2	144-4	905-3	264-3	120-2
0.080	487-2	914-4	688-2	146-2	718-2	340-4	248-2	543-3	267-2	216-4	143-2	345-3	169-2	169-4	101-2	276-3	133-2
0.095	899-3	830-4	586-2	117-2	613-2	415-4	271-2	584-3	306-2	294-4	180-2	413-3	217-2	219-4	122-2	309-3	162-2
0.090	779-2	137-3	120-1	211-2	957-2	531-4	346-2	672-3	371-2	352-4	221-2	449-3	258-2	262-4	151-2	341-3	183-2
0.095	106-1	186-3	120-1	211-2	123-1	579-4	360-2	657-3	383-2	390-4	231-2	442-3	258-2	316-4	181-2	359-3	209-2
0.100	980-2	271-3	176-1	278-2	170-1	805-4	496-2	818-3	506-2	491-4	307-2	512-3	308-2	345-4	205-2	372-3	217-2
0.110	419-2	160-3	853-2	135-2	918-2	666-4	360-2	561-3	380-2	505-4	273-2	429-3	288-2	376-4	211-2	329-3	214-2
0.120	384-2	148-3	723-2	105-2	777-2	100-3	477-2	709-3	524-2	669-4	323-2	481-3	350-2	446-4	205-2	322-3	233-2
0.130	160-1	384-3	184-1	232-2	185-1	111-3	513-2	676-3	538-2	663-4	307-2	406-3	320-2	553-4	226-2	334-3	267-2
0.140	406-2	145-3	649-2	758-3	652-2	804-4	380-2	423-3	361-2	688-4	319-2	359-3	309-2	644-4	245-2	345-3	289-2
0.150	800-2	261-3	113-1	118-2	109-1	152-3	639-2	693-3	637-2	106-3	417-2	478-3	444-2	828-4	308-2	376-3	347-2
0.160	144-1	385-3	148-1	154-2	151-1	165-3	636-2	665-3	650-2	124-3	479-2	499-3	489-2	967-4	355-2	393-3	379-2
0.170	190-1	640-3	239-1	226-2	236-1	209-3	778-2	748-3	775-2	141-3	529-2	504-3	522-2	104-3	377-2	381-3	386-2
0.180	205-1	729-3	254-1	230-2	254-1	256-3	860-2	811-3	896-2	161-3	529-2	513-3	563-2	106-3	366-2	342-3	370-2
0.190	630-2	292-3	971-2	829-3	967-2	246-3	784-2	696-3	814-2	177-3	578-2	499-3	586-2	116-3	393-2	337-3	385-2
0.200	698-2	344-3	104-1	880-3	108-1	204-3	659-2	519-3	643-2	168-3	561-2	430-3	529-2	116-3	397-2	303-3	365-2
0.220	221-1	795-3	226-1	168-2	227-1	250-3	726-2	533-3	716-2	178-3	497-2	382-3	510-2	131-3	370-2	281-3	376-2
0.240	687-2	324-3	802-2	576-3	850-2	169-3	461-2	303-3	442-2	140-3	422-2	281-3	422-2	140-3	396-2	250-3	367-2
0.260	106-1	503-3	118-1	761-3	121-1	274-3	633-2	419-3	663-2	196-3	517-2	303-3	474-2	161-3	421-2	255-3	390-2
0.280	241-1	110-2	251-1	143-2	247-1	372-3	865-2	486-3	835-2	239-3	567-2	226-3	537-2	183-3	439-2	244-3	412-2
0.300	419-2	286-3	565-2	325-3	600-2	191-3	410-2	217-3	402-2	200-3	425-2	226-3	420-2	183-3	424-2	215-3	384-2
0.320	708-2	391-3	767-2	391-3	769-2	217-3	453-2	215-3	426-2	225-3	449-2	224-3	442-2	201-3	436-2	200-3	394-2
0.340	152-1	909-3	164-1	805-3	168-1	357-3	647-2	316-3	661-2	284-3	550-2	255-3	525-2	232-3	481-2	208-3	430-2
0.360	117-1	748-3	128-1	590-3	130-1	475-3	858-2	373-3	829-2	344-3	662-2	270-3	601-2	283-3	538-2	231-3	495-2
0.380	919-2	896-3	148-1	635-3	148-1	600-3	993-2	427-3	993-2	427-3	727-2	301-3	707-2	336-3	561-2	245-3	556-2
0.400	304-1	202-2	318-1	129-2	318-1	859-3	130-1	548-3	134-1	531-3	808-2	342-3	834-2	374-4	565-2	244-3	588-2
0.420	894-2	112-2	166-1	652-3	168-1	702-3	110-1	408-3	105-1	516-3	820-2	301-3	772-2	380-3	620-2	226-3	568-2
0.440	507-2	586-3	965-2	309-3	837-2	530-3	917-2	281-3	757-2	455-3	794-2	241-3	651-2	351-3	629-2	192-3	501-2
0.460	569-2	501-3	812-2	242-3	684-2	429-3	772-2	208-3	586-2	390-3	723-2	189-3	533-2	320-3	613-2	158-3	437-2
0.480	130-1	111-2	141-1	496-3	146-1	425-3	747-2	189-3	773-2	370-3	673-2	164-3	485-2	295-3	575-2	336-2	386-2
0.500	194-2	710-3	971-2	290-3	893-2	510-3	755-2	208-3	641-2	375-3	606-2	155-3	472-2	280-3	519-2	117-3	351-2
0.550	201-1	185-2	208-1	625-3	211-1	657-3	768-2	222-3	751-2	428-3	498-2	145-3	489-2	308-3	368-2	106-3	352-2
0.600	121-1	132-2	133-1	376-3	138-1	631-3	651-2	179-3	661-2	495-3	495-2	141-3	518-2	372-3	404-2	108-3	390-2
0.650	640-2	165-2	160-1	401-3	160-1	873-2	847-2	219-3	873-2	569-3	614-2	138-3	550-2	370-3	452-2	923-2	358-2
0.700	121-1	155-2	137-1	324-3	139-1	815-3	744-2	170-3	732-2	593-3	507-2	116-3	497-2	375-3	390-2	817-4	336-2

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SC AND G FOR SA

PER	DAMPING = 0 PER CENT						DAMPING = 2 PER CENT						DAMPING = 5 PER CENT						DAMPING = 10 PER CENT						DAMPING = 20 PER CENT					
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
0.75	611-2	104-2	798-2	189-3	872-2	590-3	555-2	107-3	494-2	475-3	476-2	870-4	398-2	418-3	378-2	773-4	350-2	332-3	331-2	643-4	278-2									
0.80	792-2	115-2	836-2	184-3	908-2	667-3	538-2	106-3	524-2	498-3	476-2	799-4	391-4	466-3	389-2	757-4	366-2	377-3	316-2	643-4	296-2									
0.85	599-2	106-2	743-2	151-3	789-2	770-3	475-2	108-3	568-2	655-3	432-2	931-4	484-2	534-3	373-2	767-4	394-2	420-3	311-2	636-4	311-2									
0.90	472-2	876-3	557-2	110-3	611-2	800-3	477-2	100-3	558-2	745-3	460-2	944-4	520-2	581-3	365-2	745-4	405-2	463-3	316-2	617-4	323-2									
0.95	939-2	218-2	137-1	247-3	144-1	139-2	843-2	158-3	920-2	100-2	603-2	113-3	662-2	702-3	424-2	808-4	464-2	504-3	323-2	599-4	333-2									
1.00	245-1	390-2	245-1	399-3	245-1	160-2	970-2	164-3	101-1	107-2	618-2	109-3	672-2	780-3	452-2	811-4	490-2	547-3	330-2	589-4	344-2									
1.10	125-1	279-2	156-1	236-3	159-1	212-2	109-1	179-3	121-1	154-2	781-2	131-3	882-2	103-2	508-2	888-4	590-2	659-3	340-2	589-4	376-2									
1.20	175-1	364-2	184-1	259-3	191-1	196-2	944-2	139-3	102-1	156-2	746-2	111-3	820-2	118-2	561-2	853-4	617-2	808-3	354-2	610-4	423-2									
1.30	142-1	365-2	169-1	221-3	176-1	260-2	122-1	157-3	125-1	177-2	802-2	108-3	860-2	137-2	592-2	846-4	664-2	958-3	432-2	619-4	463-2									
1.40	125-1	459-2	217-1	239-3	206-1	317-2	153-1	165-3	142-1	235-2	998-2	123-3	105-1	171-2	747-2	910-4	768-2	110-2	505-2	606-4	494-2									
1.50	122-1	378-2	151-1	172-3	158-1	316-2	140-1	143-3	131-1	248-2	990-2	999-4	977-2	187-2	767-2	767-4	738-2	128-2	534-2	588-4	504-2									
1.60	305-1	779-2	305-1	311-3	305-1	360-2	124-1	143-3	132-1	257-2	104-1	117-3	107-1	188-2	797-2	872-4	790-2	121-2	538-2	550-4	490-2									
1.70	189-1	512-2	189-1	181-3	189-1	359-2	134-1	127-3	132-1	265-2	964-2	944-4	981-2	180-2	712-2	651-4	666-2	132-2	529-2	508-4	490-2									
1.80	298-1	922-2	322-1	291-3	321-1	473-2	168-1	149-3	165-1	278-2	100-1	884-4	971-2	179-2	680-2	574-4	625-2	135-2	519-2	467-4	472-2									
1.90	651-2	428-2	151-1	121-3	141-1	330-2	111-1	936-4	109-1	233-2	763-2	666-4	773-2	178-2	658-2	514-4	590-2	136-2	499-2	427-4	452-2									
2.00	150-1	669-2	208-1	171-3	210-1	419-2	136-1	107-3	131-1	260-2	858-2	668-4	818-2	181-2	618-2	471-4	568-2	137-2	488-2	391-4	432-2									
2.20	338-2	427-2	128-1	192-4	122-1	439-2	133-1	929-4	125-1	355-2	105-1	754-4	101-1	254-2	731-2	548-4	726-2	165-2	481-2	383-4	473-2									
2.40	225-1	861-2	225-1	153-3	225-1	455-2	129-1	809-4	119-1	348-2	942-2	621-4	911-2	274-2	736-2	498-4	717-2	190-2	525-2	363-4	497-2									
2.60	904-2	651-2	162-1	984-4	157-1	886-2	136-1	818-4	130-1	420-2	104-1	640-4	101-1	294-2	766-2	455-4	712-2	212-2	345-4	512-2										
2.80	318-1	149-1	343-1	195-3	336-1	590-2	207-1	115-3	199-1	524-2	134-1	687-4	117-1	355-2	901-2	480-4	797-2	231-2	608-2	335-4	520-2									
3.00	174-1	960-2	216-1	109-3	201-1	761-2	179-1	866-4	159-1	559-2	141-1	639-4	117-1	394-2	102-1	460-4	827-2	248-2	668-2	309-4	519-2									
3.20	130-1	925-2	195-1	924-4	181-1	778-2	167-1	778-4	152-1	616-2	135-1	620-4	121-1	443-2	101-1	457-4	871-2	269-2	660-2	303-4	528-2									
3.40	216-1	117-1	217-1	103-3	216-1	746-2	146-1	660-4	137-1	592-2	111-1	529-4	109-1	445-2	879-2	408-4	823-2	282-2	629-2	283-4	522-2									
3.60	119-1	794-2	153-1	627-4	138-1	626-2	133-1	495-4	109-1	532-2	116-1	423-4	929-2	409-2	929-2	336-4	715-2	299-2	626-2	258-4	522-2									
3.80	401-2	667-2	147-1	472-4	110-1	591-2	134-1	419-4	978-2	508-2	117-1	361-4	840-2	429-2	937-2	313-4	710-2	311-2	647-2	246-4	515-2									
4.00	113-1	772-2	147-1	493-4	121-1	653-2	130-1	417-4	102-1	545-2	110-1	351-4	857-2	448-2	887-2	298-4	703-2	316-2	635-2	228-4	496-2									
4.20	141-1	106-1	174-1	616-4	159-1	704-2	114-1	408-4	105-1	578-2	940-2	338-4	864-2	455-2	803-2	273-4	681-2	314-2	627-2	208-4	470-2									
4.40	141-1	114-1	180-1	605-4	163-1	787-2	130-1	416-4	112-1	573-2	933-2	305-4	819-2	443-2	780-2	243-4	633-2	325-2	608-2	194-4	465-2									
4.60	121-1	101-1	142-1	490-4	138-1	729-2	111-1	353-4	957-2	567-2	940-2	277-4	775-2	458-2	737-2	232-4	626-2	329-2	575-2	185-4	450-2									
4.80	745-2	752-2	121-1	334-4	985-2	669-2	108-1	297-4	876-2	570-2	929-2	254-4	747-2	454-2	738-2	212-4	594-2	325-2	554-2	172-4	426-2									
5.00	220-2	740-2	106-1	303-4	930-4	659-2	972-2	270-4	828-2	560-2	856-2	230-4	704-2	442-2	704-2	186-4	556-2	314-2	550-2	157-4	390-2									
5.50	646-2	634-2	944-2	214-4	725-2	583-2	872-2	197-4	666-2	518-2	794-2	177-4	592-2	434-2	684-2	155-4	496-2	324-2	527-2	131-4	375-2									
6.00	468-2	580-2	845-2	164-4	607-2	543-2	740-2	154-4	568-2	493-2	680-2	143-4	517-2	426-2	599-2	128-4	446-2	330-2	500-2	118-4	346-2									
6.50	243-2	484-2	773-2	117-4	468-2	458-2	738-2	111-4	442-2	426-2	690-2	106-4	412-2	383-2	621-2	101-4	370-2	315-2	519-2	100-4	304-2									
7.00	254-2	419-2	720-2	876-5	376-2	371-2	697-2	775-5	333-2	349-2	664-2	751-5	313-2	327-2	613-2	771-5	294-2	288-2	528-2	845-5	259-2									
7.50	332-2	446-2	657-2	811-5	373-2	369-2	644-2	674-5	309-2	305-2	623-2	570-5	256-2	271-2	589-2	578-5	227-2	258-2	524-2	705-5	216-2									
8.00	282-2	400-2	597-2	639-5	314-2	349-2	591-2	560-5	274-2	297-2	580-2	488-5	233-2	262-2	559-2	459-5	206-2	228-2	514-2	591-5	179-2									

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S4SE
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

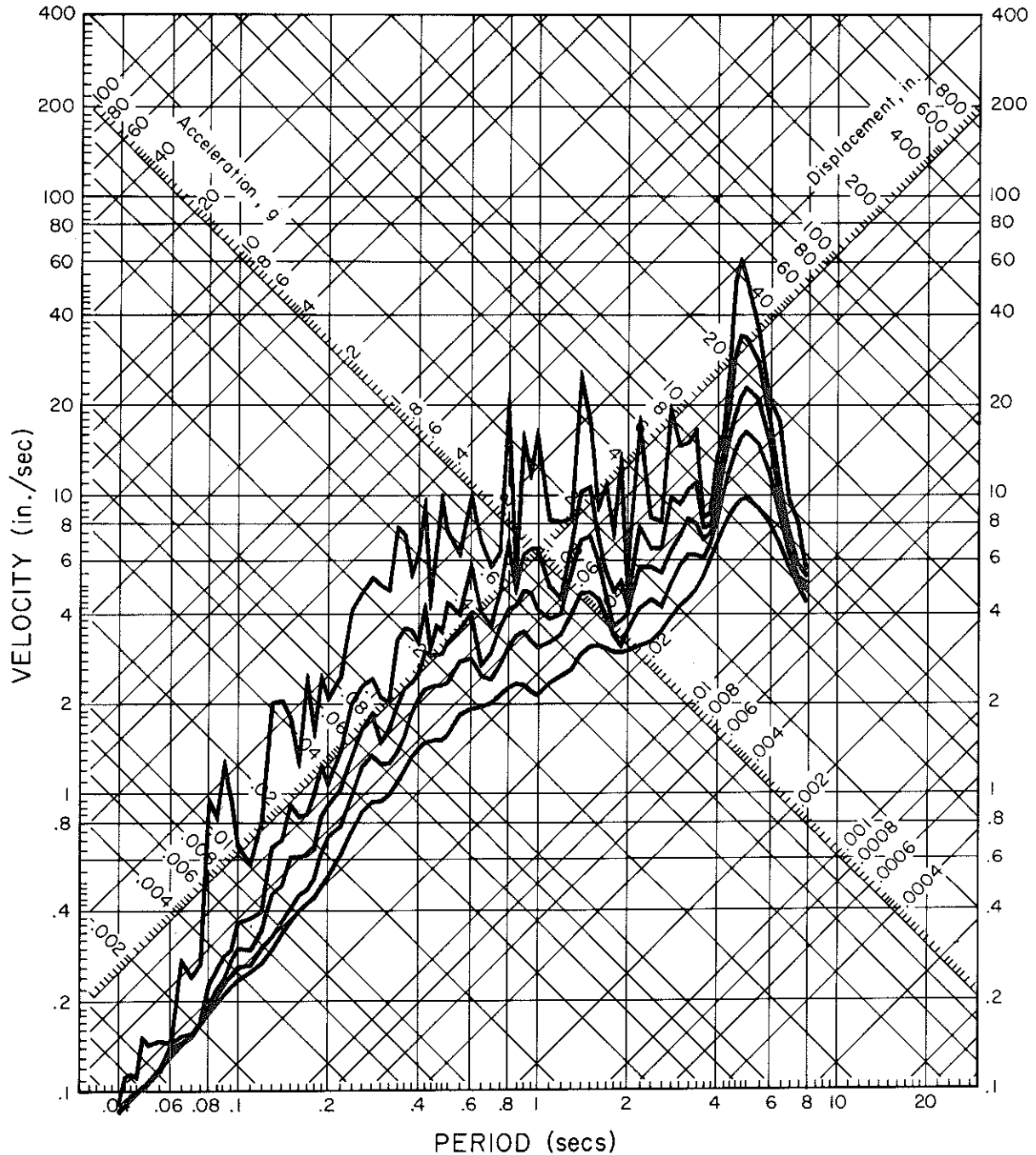


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH118 71.C39.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	186-4	584-6	315-4	373-4	918-4	555-6	138-4	354-4	872-4	550-6	123-4	351-4	864-4	549-6	132-4	351-4	863-4
0.042	194-4	753-6	406-4	436-4	112-3	601-6	148-4	348-4	899-4	607-6	145-4	351-4	908-4	606-6	146-4	351-4	907-4
0.044	422-4	807-6	468-4	426-4	115-3	683-6	170-4	361-4	976-4	671-6	163-4	355-4	959-4	666-6	161-4	352-4	952-4
0.046	379-4	820-6	444-4	396-4	112-3	732-6	196-4	354-4	100-3	730-6	185-4	352-4	997-4	727-6	177-4	352-4	993-4
0.048	468-4	116-5	697-4	516-4	152-3	798-6	222-4	354-4	104-3	789-6	203-4	350-4	103-3	790-6	192-4	351-4	103-3
0.050	132-4	114-5	626-4	469-4	144-3	849-6	243-4	347-4	106-3	847-6	230-4	346-4	106-3	856-6	217-4	350-4	107-3
0.055	457-4	130-5	704-4	440-4	148-3	102-5	336-4	348-4	117-3	105-5	299-4	356-4	120-3	105-5	283-4	357-4	120-3
0.060	827-4	138-5	928-4	394-4	145-3	139-5	580-4	398-4	146-3	134-5	425-4	380-4	140-3	128-5	371-4	367-4	135-3
0.065	140-3	285-5	233-3	691-4	276-3	160-5	638-4	388-4	155-3	151-5	476-4	367-4	146-3	150-5	437-4	364-4	145-3
0.070	972-4	270-5	175-3	564-4	242-3	174-5	699-4	364-4	156-3	170-5	589-4	355-4	152-3	173-5	519-4	361-4	155-3
0.075	127-3	324-5	182-3	569-4	271-3	206-5	104-3	374-4	172-3	204-5	789-4	371-4	171-3	204-5	653-4	372-4	171-3
0.080	787-3	122-4	882-3	195-3	958-3	293-5	178-3	469-4	230-3	247-5	112-3	395-4	194-3	241-5	827-4	386-4	189-3
0.085	618-3	113-4	735-4	160-3	839-3	349-5	165-3	495-4	258-3	299-5	113-3	424-4	221-3	284-5	949-4	403-4	210-3
0.090	988-3	181-4	118-2	228-3	126-2	410-5	194-3	521-4	286-3	345-5	141-3	436-4	240-3	329-5	109-3	416-4	229-3
0.095	864-3	144-4	902-3	163-3	952-3	454-5	221-3	513-4	300-3	418-5	161-3	475-4	277-3	375-5	128-3	429-4	248-3
0.100	468-3	107-4	576-3	109-3	673-3	587-5	247-3	600-4	369-3	483-5	175-3	494-4	303-4	418-5	141-3	428-4	263-3
0.110	332-3	102-4	455-3	863-4	583-3	668-5	274-3	564-4	381-3	524-5	187-3	445-4	299-3	467-5	170-3	396-4	267-3
0.120	385-3	155-4	720-3	110-3	812-3	768-5	308-3	548-4	402-3	668-5	246-3	473-4	349-3	582-5	203-3	414-4	304-3
0.130	138-2	422-4	199-2	255-3	204-2	139-4	579-3	839-4	671-3	956-5	365-3	585-4	462-3	688-5	243-3	425-4	332-3
0.140	153-2	462-4	190-2	241-3	207-2	157-4	675-3	823-4	706-3	110-4	390-3	573-4	494-3	832-5	259-3	440-4	373-3
0.150	106-2	429-4	173-2	195-3	179-2	221-4	824-3	101-3	926-3	148-4	531-3	673-4	621-3	991-5	326-3	456-4	415-3
0.160	313-3	329-4	116-2	131-3	129-2	215-4	727-3	860-4	845-3	158-4	505-3	633-4	620-3	116-4	323-3	457-4	459-3
0.170	124-2	654-4	222-2	231-3	241-2	233-4	695-3	824-4	861-3	170-4	475-3	733-4	852-3	193-4	435-3	552-4	638-3
0.180	142-2	468-4	147-2	147-3	163-2	289-4	882-3	917-4	101-2	189-4	592-3	604-4	661-3	150-4	405-3	477-4	524-3
0.190	212-2	751-4	221-2	212-3	248-2	373-4	961-3	105-3	123-2	257-4	603-3	733-4	852-3	193-4	435-3	552-4	638-3
0.200	199-2	672-4	199-2	171-3	211-2	345-4	827-3	961-3	105-3	123-2	257-4	603-3	733-4	852-3	193-4	435-3	552-4
0.220	414-3	878-4	224-2	185-3	251-2	489-4	117-2	104-3	139-2	367-4	835-3	786-4	104-2	275-4	554-3	590-4	786-3
0.240	382-2	161-3	404-2	286-3	423-2	780-4	169-2	138-3	204-2	514-4	102-2	917-4	134-2	378-4	701-3	682-4	990-3
0.260	326-2	199-3	446-2	301-3	482-2	964-4	215-2	145-3	233-2	690-4	134-2	105-3	166-2	516-4	872-3	788-4	124-2
0.280	529-2	239-3	531-2	312-3	538-2	109-3	244-2	143-3	245-2	837-4	159-2	109-3	187-2	605-4	953-3	788-4	135-2
0.300	456-2	241-3	490-2	273-3	504-2	101-3	203-2	115-3	212-2	715-4	122-2	820-4	149-2	607-4	997-3	695-4	127-2
0.320	322-2	249-3	467-2	248-3	489-2	104-3	201-2	103-3	204-2	854-4	149-2	846-4	167-2	651-4	117-2	658-4	128-2
0.340	731-2	427-3	776-2	378-3	790-2	180-3	312-2	158-3	333-2	108-3	188-2	963-4	200-2	754-4	133-2	677-4	139-2
0.360	502-2	428-3	730-2	330-3	747-2	208-3	350-2	165-3	364-2	130-3	216-2	103-3	228-2	905-4	147-2	729-4	157-2
0.380	150-2	313-3	527-2	236-3	552-2	215-3	327-2	152-3	356-2	144-3	219-2	102-3	239-2	114-3	153-2	824-4	188-2
0.400	630-2	413-3	646-2	264-3	650-2	206-3	327-2	132-3	325-2	163-3	217-2	104-3	256-2	133-3	181-2	867-4	210-2
0.420	735-2	622-3	904-2	361-3	931-2	284-3	388-2	165-3	425-2	202-3	271-2	118-3	302-2	151-3	208-2	896-4	226-2
0.440	351-2	317-3	410-2	167-3	453-2	218-3	290-2	115-3	311-2	206-3	275-2	109-3	296-2	161-3	232-2	878-4	231-2
0.460	405-2	492-3	632-2	237-3	672-2	271-3	343-2	131-3	370-2	216-3	285-2	105-3	296-2	171-3	239-2	841-4	233-2
0.480	963-2	751-3	968-2	333-3	983-2	269-3	347-2	119-3	353-2	228-3	293-2	101-3	298-2	179-3	239-2	806-4	234-2
0.500	599-2	610-3	749-2	249-3	766-2	352-3	400-2	144-3	442-2	260-3	309-2	107-3	327-2	190-3	245-2	786-4	239-2
0.550	523-2	563-3	649-2	190-3	644-2	354-3	392-2	120-3	404-2	317-3	291-2	108-3	362-2	246-3	232-2	850-4	282-2
0.600	925-2	965-3	100-1	274-3	101-1	560-3	552-2	159-3	586-2	389-3	367-2	110-3	407-2	275-3	252-2	793-4	288-2
0.650	547-2	724-3	720-2	175-3	700-2	421-3	434-2	101-3	407-2	282-3	277-2	687-4	273-2	260-3	219-2	636-4	251-2
0.700	191-2	653-3	562-2	136-3	586-2	413-3	351-2	862-4	370-2	336-3	272-2	706-4	302-2	272-3	235-2	575-4	244-2

DAMPING = 0 PER CENT

DAMPING = 2 PER CENT

DAMPING = 5 PER CENT

DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

IIIIH18 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	412-2	786-3	650-2	143-3	659-2	575-3	449-2	104-3	482-2	437-3	346-2	800-4	366-2	328-3	272-2	604-4	274-2
0.80	174-1	251-2	195-1	401-3	197-1	891-3	675-2	142-3	700-2	535-3	404-2	860-4	420-2	401-3	312-2	650-4	315-2
0.85	329-2	746-3	540-2	105-3	551-2	665-3	508-2	944-4	492-2	587-3	432-2	837-4	433-2	465-3	326-2	670-4	344-2
0.90	146-1	225-2	155-1	285-3	157-1	924-3	602-2	116-3	645-2	697-3	451-2	886-4	487-2	507-3	309-2	654-4	354-2
0.95	861-2	180-2	115-1	204-3	119-1	101-2	642-2	115-3	672-2	725-3	452-2	826-4	479-2	498-3	296-2	576-4	329-2
1.00	139-1	258-2	158-1	264-3	162-1	107-2	629-2	109-3	674-2	669-3	404-2	886-4	420-2	498-3	293-2	518-4	313-2
1.10	652-2	146-2	814-2	123-3	837-2	876-3	464-2	740-4	500-2	682-3	380-2	579-4	389-2	572-3	291-2	493-4	326-2
1.20	676-2	157-2	791-2	111-3	824-2	869-3	356-2	618-4	455-2	775-3	319-2	553-4	406-2	663-3	287-2	481-4	347-2
1.30	832-2	175-2	846-2	106-3	847-2	143-2	579-2	868-4	693-2	116-2	474-2	708-4	563-2	844-3	357-2	518-4	408-2
1.40	226-1	562-2	248-1	293-3	252-1	233-2	100-1	122-3	104-1	160-2	679-2	842-4	721-2	106-2	447-2	563-4	478-2
1.50	156-1	427-2	172-1	194-3	179-1	259-2	105-1	117-3	108-1	176-2	716-2	806-4	739-2	114-2	501-2	529-4	481-2
1.60	854-2	235-2	897-2	940-4	924-2	187-2	719-2	748-4	734-2	155-2	549-2	625-4	612-2	116-2	443-2	474-4	456-2
1.70	735-2	298-2	104-1	105-3	110-1	151-2	579-2	537-4	561-2	127-2	470-2	453-4	470-2	106-2	369-2	386-4	394-2
1.80	536-2	217-2	735-2	638-4	760-2	138-2	468-2	437-4	483-2	105-2	385-2	334-4	368-2	983-3	340-2	317-4	343-2
1.90	122-1	392-2	129-1	111-3	129-1	158-2	485-2	450-4	525-2	116-2	387-2	332-4	386-2	955-3	328-2	275-4	316-2
2.00	273-2	168-2	523-2	430-4	529-2	139-2	440-2	356-4	437-2	128-2	368-2	330-4	404-2	112-2	307-2	294-4	354-2
2.20	154-1	612-2	171-1	129-3	174-1	279-2	824-2	591-4	799-2	204-2	593-2	434-4	585-2	148-2	413-2	319-4	425-2
2.40	634-2	325-2	768-2	577-4	852-2	257-2	608-2	457-4	673-2	223-2	513-2	399-4	585-2	173-2	386-2	315-4	455-2
2.60	616-2	343-2	782-2	520-4	831-2	280-2	645-2	424-4	677-2	232-2	546-2	353-4	561-2	178-2	392-2	273-4	430-2
2.80	186-1	874-2	191-1	114-3	196-1	446-2	967-2	583-4	100-1	296-2	650-2	389-4	666-2	230-2	439-2	305-4	517-2
3.00	140-1	708-2	147-1	805-4	148-1	453-2	945-2	515-4	949-2	357-2	730-2	408-4	749-2	283-2	542-2	327-4	594-2
3.20	149-1	777-2	150-1	777-4	152-1	544-2	107-1	543-4	106-1	434-2	835-2	435-4	852-2	328-2	629-2	333-4	644-2
3.40	118-1	901-2	169-1	797-4	166-1	605-2	115-1	536-4	111-1	442-2	858-2	393-4	816-2	346-2	654-2	312-4	640-2
3.60	761-2	489-2	799-2	386-4	854-2	452-2	753-2	357-4	789-2	413-2	708-2	327-4	722-2	359-2	656-2	287-4	627-2
3.80	536-2	536-2	772-2	379-4	886-2	486-2	741-2	344-4	804-2	461-2	746-2	328-4	763-2	425-2	745-2	305-4	703-2
4.00	123-1	874-2	138-1	559-4	137-1	665-2	108-1	425-4	104-1	605-2	936-2	388-4	950-2	531-2	884-2	343-4	835-2
4.20	969-2	110-1	150-1	638-4	164-1	979-2	140-1	568-4	146-1	837-2	126-1	487-4	125-1	690-2	106-1	405-4	103-1
4.40	239-1	188-1	262-1	995-4	269-1	138-1	195-1	729-4	197-1	110-1	162-1	588-4	158-1	872-2	124-1	467-4	124-1
4.60	492-1	387-1	523-1	187-3	528-1	220-1	305-1	106-3	301-1	139-1	193-1	675-4	190-1	105-1	140-1	519-4	144-1
4.80	620-1	473-1	620-1	210-3	620-1	265-1	358-1	117-3	346-1	166-1	214-1	741-4	217-1	121-1	148-1	549-4	158-1
5.00	430-1	430-1	547-1	176-3	541-1	272-1	352-1	111-3	342-1	185-1	232-1	761-4	232-1	131-1	154-1	550-4	165-1
5.50	231-1	324-1	380-1	109-3	370-1	250-1	288-1	848-4	286-1	185-1	230-1	631-4	212-1	131-1	169-1	457-4	150-1
6.00	106-1	203-1	233-1	578-4	213-1	176-1	207-1	502-4	184-1	147-1	180-1	421-4	154-1	114-1	146-1	336-4	120-1
6.50	162-1	185-1	189-1	448-4	178-1	115-1	130-1	278-4	111-1	103-1	118-1	251-4	997-2	909-2	112-1	228-4	879-2
7.00	629-2	108-1	105-1	226-4	974-2	855-2	991-2	137-2	767-2	733-2	920-2	154-4	658-2	726-2	896-2	157-4	651-2
7.50	659-2	981-2	906-2	178-4	822-2	709-2	777-2	129-4	594-2	641-2	786-2	117-4	537-2	646-2	797-2	122-4	541-2
8.00	318-2	727-2	804-2	116-4	571-2	694-2	777-2	111-4	545-2	660-2	754-2	106-4	518-2	622-2	739-2	103-4	488-2

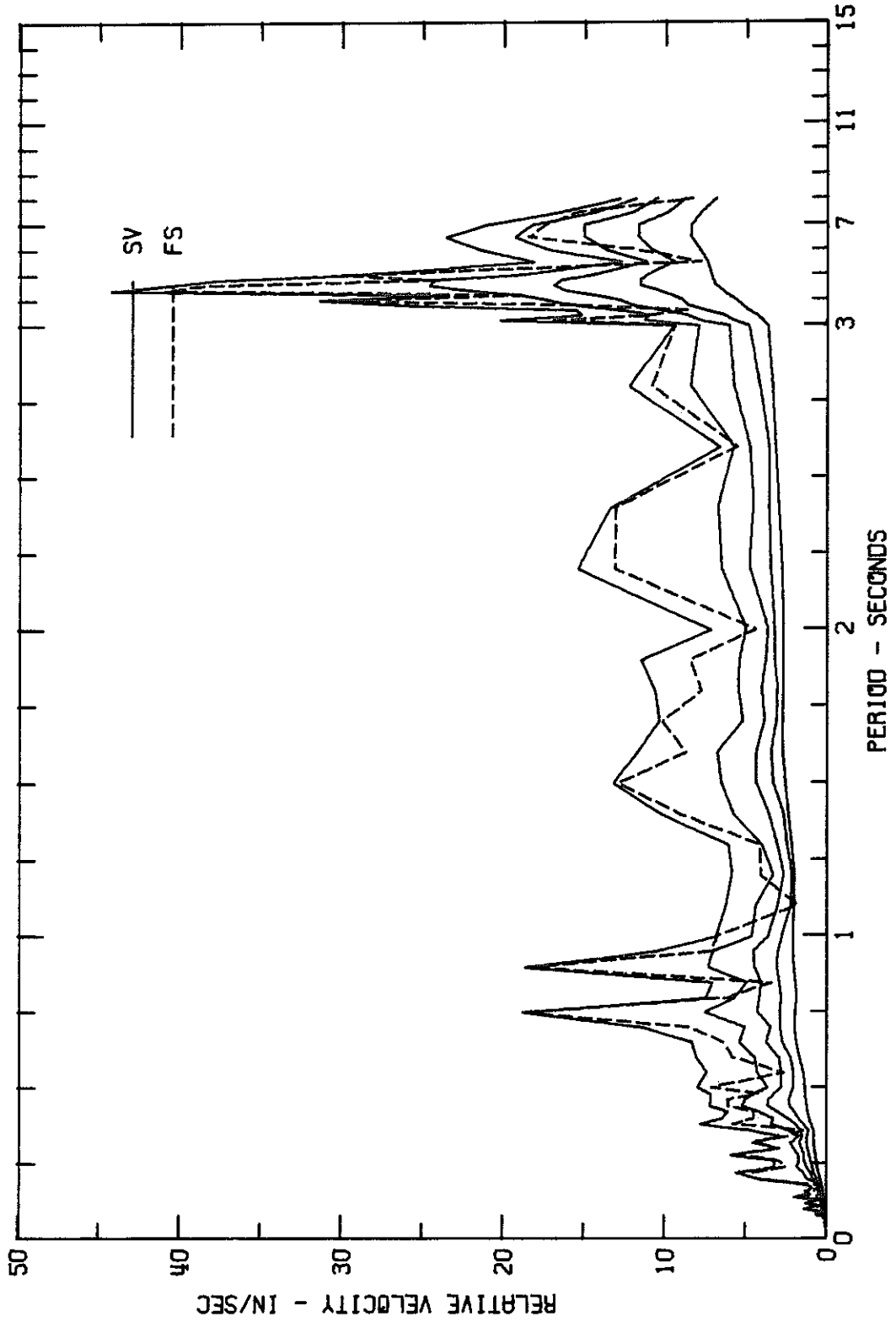
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

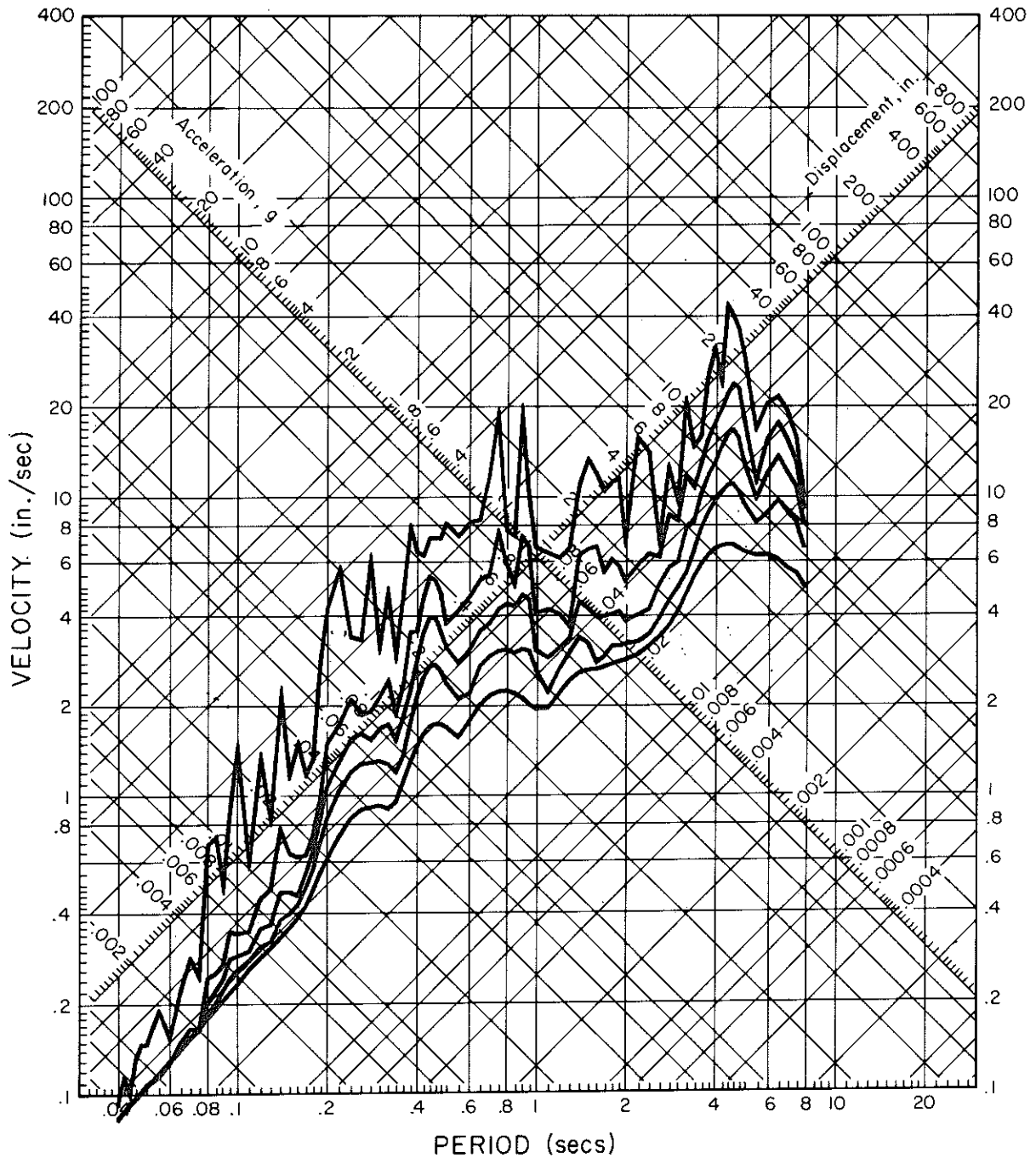


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP S45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	106-4	590-6	259-4	377-4	927-4	526-6	143-4	336-4	826-4	527-6	137-4	337-4	829-4	531-6	136-4	339-4	834-4	533-6	133-4	341-4	837-4	533-6	133-4	341-4	837-4
0.042	332-4	763-6	504-4	442-4	114-3	587-6	157-4	340-4	879-4	586-6	152-4	340-4	877-4	588-6	149-4	341-4	879-4	589-6	147-4	342-4	881-4	589-6	147-4	342-4	881-4
0.044	709-5	699-6	261-4	369-4	999-4	656-6	159-4	346-4	937-4	649-6	164-4	343-4	928-4	648-6	162-4	342-4	926-4	648-6	161-4	343-4	925-4	648-6	161-4	343-4	925-4
0.046	713-4	693-6	271-4	470-4	132-3	713-6	190-4	344-4	974-4	714-6	177-4	345-4	975-4	712-6	175-4	344-4	973-4	710-6	177-4	344-4	970-4	710-6	177-4	344-4	970-4
0.048	420-4	112-5	657-4	499-4	147-3	780-6	193-4	346-4	102-3	782-6	183-4	347-4	102-3	779-6	187-4	346-4	102-3	775-6	193-4	345-4	101-3	775-6	193-4	345-4	101-3
0.050	679-4	116-5	861-4	478-4	146-3	859-6	222-4	351-4	108-3	852-6	203-4	348-4	107-3	848-6	201-4	346-4	106-3	844-6	212-4	346-4	106-3	844-6	212-4	346-4	106-3
0.055	347-4	166-5	100-3	564-4	190-3	100-5	349-4	338-4	114-3	102-5	293-4	346-4	117-3	103-5	270-4	348-4	117-3	102-5	270-4	349-4	117-3	102-5	270-4	349-4	117-3
0.060	687-4	147-5	926-4	418-4	154-3	122-5	437-4	347-4	127-3	123-5	404-4	352-4	129-3	124-5	378-4	353-4	130-3	123-5	347-4	352-4	129-3	123-5	347-4	352-4	129-3
0.065	523-4	232-5	131-3	563-4	225-3	155-5	691-4	376-4	150-3	151-5	550-4	367-4	146-3	148-5	498-4	360-4	143-3	146-5	437-4	356-4	141-3	146-5	437-4	356-4	141-3
0.070	124-3	317-5	225-3	662-4	284-3	185-5	976-4	387-4	166-3	173-5	723-4	362-4	155-3	173-5	641-4	361-4	155-3	171-5	528-4	359-4	154-3	171-5	528-4	359-4	154-3
0.075	159-3	295-5	169-3	536-4	247-3	194-5	927-4	353-4	163-3	196-5	894-4	357-4	164-3	200-5	786-4	365-4	168-3	198-5	638-4	363-4	166-3	198-5	638-4	363-4	166-3
0.080	602-3	876-5	604-3	140-3	688-3	312-5	154-3	499-4	245-3	258-5	117-3	413-4	202-3	236-5	945-4	377-4	186-3	228-5	730-4	369-4	179-3	228-5	730-4	369-4	179-3
0.085	401-3	992-5	650-3	140-3	733-3	345-5	178-3	491-4	255-3	302-5	120-3	427-4	223-3	272-5	105-3	388-4	201-3	261-5	832-4	373-4	193-3	261-5	832-4	373-4	193-3
0.090	326-3	713-5	405-3	900-4	498-3	391-5	195-3	494-4	273-3	350-5	138-3	444-4	244-3	320-5	115-3	407-4	223-3	296-5	913-4	377-4	206-3	296-5	913-4	377-4	206-3
0.095	597-3	142-4	863-3	161-3	943-3	529-5	277-3	599-4	350-3	430-5	184-3	489-4	285-3	371-5	128-3	425-4	245-3	332-5	100-3	380-4	219-3	332-5	100-3	380-4	219-3
0.100	143-2	228-4	141-2	233-3	143-2	546-5	287-3	561-4	343-3	615-5	203-3	477-4	290-3	414-5	131-3	430-4	260-3	371-5	107-3	384-4	233-3	371-5	107-3	384-4	233-3
0.110	305-3	105-4	555-3	891-4	602-3	612-5	315-3	522-4	349-3	527-5	228-3	447-4	301-3	493-5	161-3	422-4	282-3	459-5	115-3	393-4	262-3	459-5	115-3	393-4	262-3
0.120	127-2	256-4	131-2	181-3	134-2	863-5	385-3	614-4	452-3	684-5	266-3	489-4	358-3	596-5	183-3	428-4	312-3	547-5	134-3	394-4	286-3	547-5	134-3	394-4	286-3
0.130	384-3	173-4	772-3	104-3	837-3	100-4	411-3	609-4	487-3	765-5	301-3	459-4	369-3	667-5	224-3	411-4	322-3	640-5	148-3	393-4	309-3	667-5	224-3	411-4	322-3
0.140	181-2	487-4	209-2	254-3	218-2	172-4	612-3	903-4	774-3	106-4	351-3	561-4	477-3	854-5	243-3	446-4	383-3	744-5	180-3	398-4	334-3	744-5	180-3	398-4	334-3
0.150	930-3	280-4	108-2	127-3	117-2	152-4	517-3	693-4	640-3	113-4	379-3	515-4	475-3	957-5	273-3	436-4	400-3	859-5	213-3	391-4	359-3	859-5	213-3	391-4	359-3
0.160	799-3	383-4	133-2	153-3	150-2	159-4	519-3	632-4	624-3	118-4	340-3	473-4	463-3	110-4	293-3	445-4	432-3	991-5	250-3	411-4	389-3	991-5	250-3	411-4	389-3
0.170	525-3	319-4	925-3	112-3	117-2	171-4	456-3	605-4	634-3	148-4	406-3	525-4	548-3	132-4	350-3	473-4	490-3	115-4	288-3	424-4	425-3	115-4	288-3	424-4	425-3
0.180	562-3	383-4	115-2	121-3	133-2	212-4	633-3	670-4	740-3	186-4	509-3	588-4	651-3	162-4	433-3	520-4	567-3	138-4	333-3	450-4	482-3	138-4	333-3	450-4	482-3
0.190	275-2	867-4	280-2	245-3	286-2	295-4	821-3	837-4	977-3	253-4	667-3	862-4	107-2	267-4	806-3	774-4	104-2	258-4	545-3	571-4	919-3	258-4	545-3	571-4	919-3
0.200	429-2	135-3	423-2	346-3	426-2	479-4	125-2	121-3	150-2	341-4	857-3	862-4	107-2	267-4	806-3	774-4	104-2	258-4	545-3	571-4	919-3	258-4	545-3	571-4	919-3
0.220	452-2	202-3	561-2	428-3	579-2	615-4	147-2	130-3	175-2	460-4	103-2	969-4	131-2	366-4	806-3	774-4	104-2	258-4	545-3	571-4	919-3	258-4	545-3	571-4	919-3
0.240	248-2	130-3	321-2	231-3	341-2	809-4	187-2	144-3	211-2	593-4	127-2	104-3	155-2	460-4	946-3	812-4	120-2	321-4	636-3	481-4	910-3	321-4	636-3	481-4	910-3
0.260	296-2	138-3	321-2	209-3	335-2	774-4	171-2	116-3	187-2	673-4	141-2	101-3	162-2	533-4	102-2	808-4	129-2	374-4	693-3	596-4	904-3	374-4	693-3	596-4	904-3
0.280	549-2	274-3	598-2	358-3	615-2	858-4	178-2	111-3	192-2	691-4	142-2	906-4	155-2	577-4	111-2	773-4	129-2	409-4	736-3	571-4	919-3	409-4	736-3	571-4	919-3
0.300	293-2	151-3	295-2	171-3	316-2	103-3	208-2	117-3	216-2	807-4	158-2	922-4	169-2	628-4	121-2	731-4	131-2	447-4	717-2	539-4	936-3	447-4	717-2	539-4	936-3
0.320	454-2	245-3	463-2	245-3	482-2	124-3	228-2	125-3	244-2	890-4	170-2	903-4	174-2	654-4	126-2	658-4	128-2	463-4	817-3	494-4	910-3	463-4	817-3	494-4	910-3
0.340	248-2	160-3	285-2	142-3	297-2	102-3	172-2	908-4	189-2	833-4	150-2	744-4	154-2	650-4	123-2	587-4	120-2	518-4	820-3	470-4	958-3	518-4	820-3	470-4	958-3
0.360	146-2	278-3	467-2	219-3	486-2	136-3	236-2	108-3	239-2	106-3	161-2	845-4	186-2	791-4	114-2	627-4	138-2	644-4	839-3	525-4	112-2	644-4	839-3	525-4	112-2
0.380	584-2	483-3	789-2	342-3	799-2	216-3	348-2	153-3	357-2	138-3	198-2	878-4	228-2	107-3	145-2	764-4	177-2	788-4	975-3	576-4	130-2	788-4	975-3	576-4	130-2
0.400	450-2	420-3	648-2	268-3	661-2	228-3	331-2	145-3	358-2	182-3	243-2	117-3	286-2	107-3	138-3	175-2	888-4	217-2	936-4	110-2	626-4	147-2	936-4	110-2	626-4
0.420	453-2	427-3	612-2	247-3	639-2	311-3	421-2	181-3	466-2	237-3	309-2	137-3	355-2	168-3	204-2	990-4	251-2	108-3	120-2	659-4	162-2	108-3	120-2	659-4	162-2
0.440	610-2	513-3	726-2	271-3	733-2	382-3	525-2	201-3	545-2	279-3	365-2	149-3	398-2	191-3	231-2	103-3	273-2	120-3	126-2	668-4	171-2	120-3	126-2	668-4	171-2
0.460	617-2	537-3	715-2	259-3	734-2	386-3	508-2	187-3	527-2	291-3	362-2	122-3	357-2	200-3	223-2	909-4									

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA.

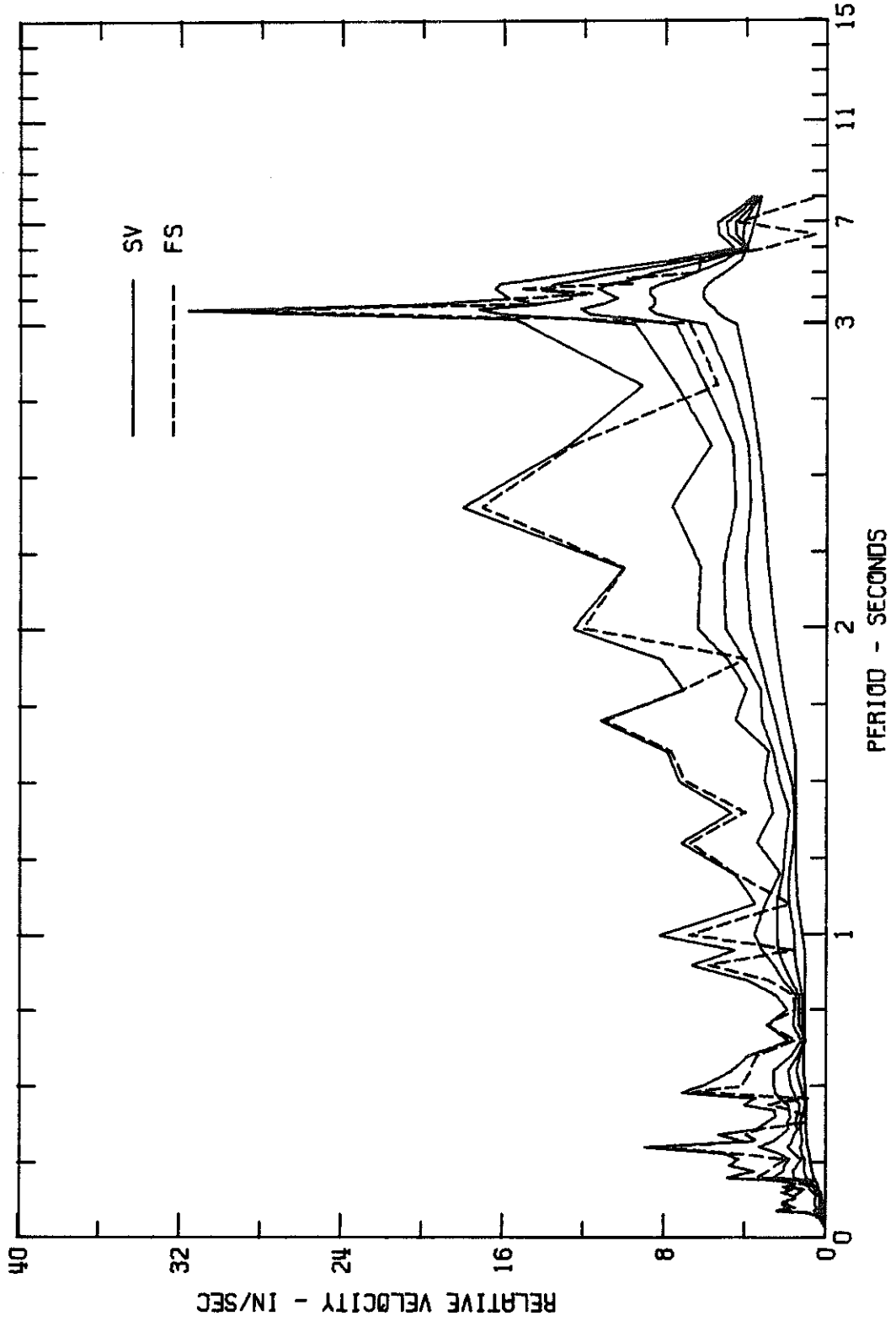
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	188-1	226-2	188-1	411-3	189-1	916-3	757-2	166-3	767-2	508-3	433-2	930-4	426-2	366-3	290-2	679-4	307-2	268-3	198-2	529-4	225-2
0.80	618-2	986-3	749-2	157-3	774-2	762-3	574-2	121-3	598-2	565-3	417-2	907-4	444-2	396-3	284-2	648-4	311-2	287-3	188-2	501-4	225-2
0.85	344-2	100-2	706-2	142-3	744-2	692-3	455-2	981-4	511-2	586-3	408-2	833-4	433-2	409-3	299-2	593-4	312-2	299-3	195-2	466-4	221-2
0.90	185-1	270-2	187-1	342-3	189-1	106-2	730-2	134-3	743-2	683-3	451-2	867-4	477-2	447-3	311-2	576-4	312-2	306-3	205-2	429-4	214-2
0.95	705-2	155-2	104-1	176-3	103-1	103-2	704-2	117-3	683-2	688-3	458-2	785-4	455-2	464-3	302-2	535-4	307-2	307-3	211-2	390-4	203-2
1.00	679-2	108-2	681-2	111-3	682-2	653-3	461-2	669-4	410-2	492-3	361-2	506-4	309-2	423-3	276-2	441-4	265-2	312-3	210-2	348-4	196-2
1.10	185-2	114-2	621-2	968-4	654-2	741-3	437-2	626-4	423-2	510-3	303-2	433-4	291-2	390-3	221-2	332-4	223-2	345-3	200-2	298-4	197-2
1.20	412-2	120-2	588-2	855-4	630-2	782-3	332-2	555-4	409-2	602-3	268-2	429-4	315-2	510-3	219-2	366-4	267-2	424-3	201-2	310-4	222-2
1.30	417-2	141-2	614-2	858-4	685-2	769-3	406-2	465-4	371-2	702-3	312-2	426-4	338-2	632-3	251-2	386-4	305-2	508-3	220-2	316-4	245-2
1.40	913-2	246-2	102-1	128-3	110-1	143-2	582-2	750-4	645-2	100-2	364-2	525-4	450-2	762-3	274-2	403-4	342-2	591-3	244-2	316-4	260-2
1.50	128-1	322-2	132-1	146-3	135-1	161-2	656-2	734-4	676-2	102-2	442-2	466-4	428-2	778-3	339-2	358-4	326-2	634-3	264-2	303-4	265-2
1.60	871-2	305-2	117-1	122-3	120-1	175-2	681-2	700-4	688-2	102-2	435-2	405-4	400-2	713-3	349-2	288-4	280-2	680-3	275-2	285-4	267-2
1.70	101-1	286-2	103-1	101-3	105-1	152-2	520-2	541-4	565-2	108-2	388-2	387-4	402-2	802-3	312-2	287-4	296-2	736-3	275-2	273-4	272-2
1.80	778-2	325-2	106-1	102-3	113-1	178-2	554-2	564-4	623-2	117-2	409-2	371-4	409-2	916-3	309-2	292-4	320-2	798-3	273-2	263-4	278-2
1.90	847-2	351-2	115-1	995-4	116-1	178-2	541-2	506-4	590-2	126-2	379-2	359-4	418-2	967-3	325-2	277-4	319-2	857-3	272-2	253-4	283-2
2.00	440-2	231-2	718-2	591-4	726-2	168-2	502-2	430-4	529-2	123-2	369-2	316-4	387-2	103-2	328-2	268-4	325-2	915-3	273-2	244-4	287-2
2.20	131-1	558-2	154-1	117-3	159-1	208-2	658-2	441-4	596-2	142-2	484-2	303-4	407-2	115-2	350-2	246-4	328-2	104-2	284-2	230-4	299-2
2.40	130-1	542-2	133-1	963-4	142-1	248-2															

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

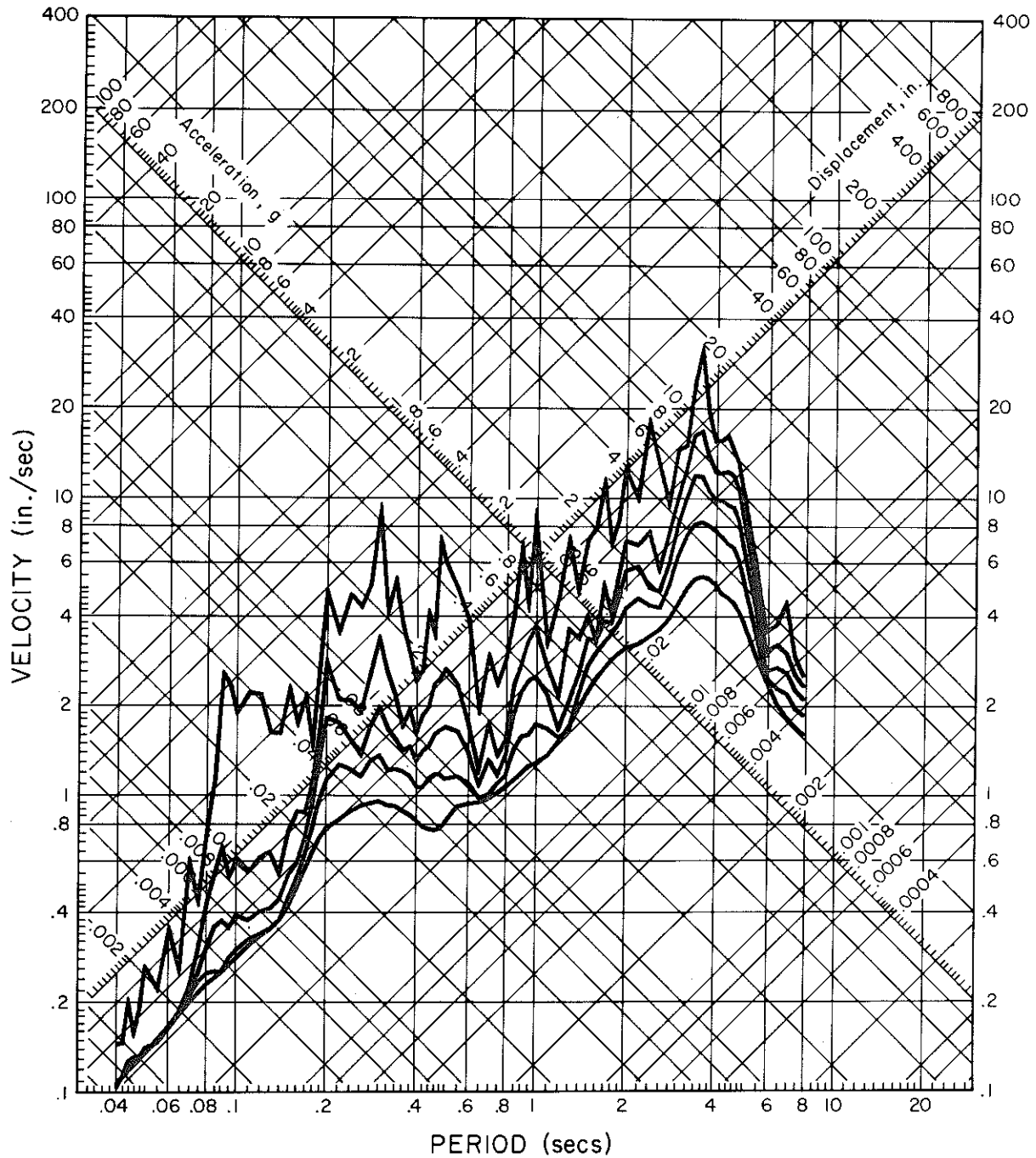


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

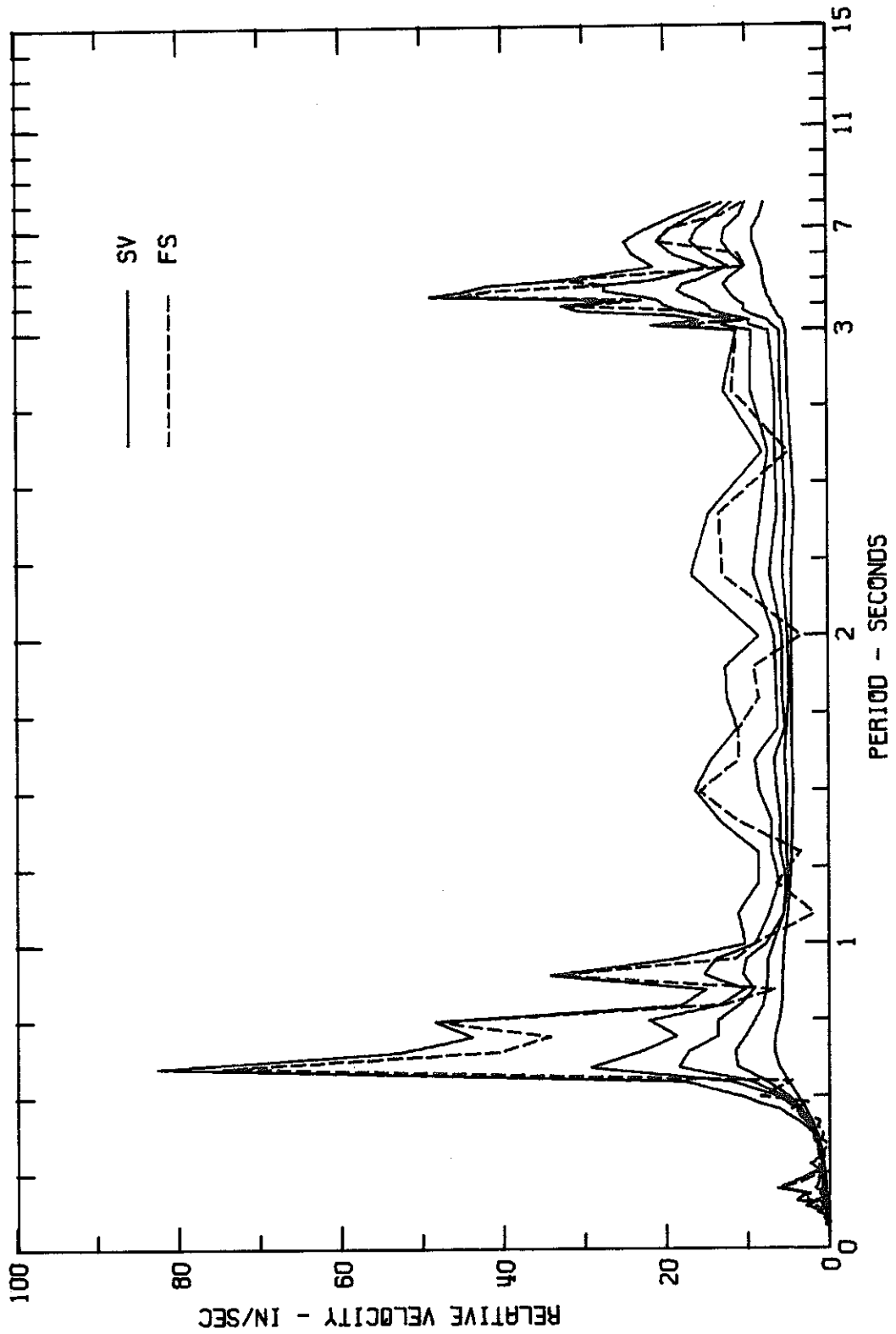
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	745-4	924-6	746-4	590-4	145-3	664-6	377-4	424-4	104-3	678-6	306-4	433-4	106-3	683-6	274-4	436-4	107-3
0.042	425-4	975-6	674-4	565-4	146-3	757-6	432-4	438-4	113-3	759-6	348-4	440-4	113-3	758-6	283-4	439-4	113-3
0.044	700-4	140-5	920-4	741-4	200-3	891-6	480-4	471-4	127-3	855-6	395-4	451-4	122-3	839-6	301-4	443-4	119-3
0.046	532-4	115-5	731-4	557-4	157-3	961-6	521-4	465-4	131-3	936-6	433-4	453-4	127-3	920-6	335-4	445-4	125-3
0.048	832-4	145-5	110-3	647-4	191-3	998-6	540-4	442-4	130-3	100-5	450-4	444-4	132-3	999-6	352-4	444-4	130-3
0.050	113-3	209-5	163-3	855-4	262-3	112-5	661-4	459-4	141-3	108-5	480-4	444-4	136-3	108-5	381-4	443-4	136-3
0.055	121-3	193-5	188-3	654-4	221-3	128-5	763-4	434-4	146-3	131-5	602-4	447-4	150-3	132-5	502-4	446-4	150-3
0.060	279-3	336-5	306-3	955-4	352-3	157-5	794-4	446-4	164-3	160-5	713-4	454-4	167-3	160-5	631-4	454-4	167-3
0.065	684-4	266-5	169-3	645-4	257-3	193-5	106-3	468-4	187-3	191-5	945-4	463-4	184-3	192-5	809-4	465-4	186-3
0.070	112-3	664-5	502-3	138-3	596-3	249-5	171-3	522-4	224-3	246-5	117-3	513-4	221-3	233-5	998-4	491-4	209-3
0.075	103-3	524-5	386-3	952-4	439-3	362-5	218-3	660-4	303-3	301-5	164-3	550-4	252-3	280-5	125-3	510-4	251-3
0.080	722-3	973-5	743-3	155-3	764-3	551-5	359-3	876-4	432-3	389-5	225-3	616-4	306-3	320-5	150-3	510-4	251-3
0.085	941-3	155-4	102-2	220-3	115-2	738-5	487-3	120-3	545-3	487-5	309-3	688-4	360-3	344-5	201-3	493-4	254-3
0.090	196-2	368-4	251-2	465-3	257-2	956-5	627-3	120-3	667-3	543-5	354-3	684-4	379-3	362-5	226-3	472-4	253-3
0.095	197-2	351-4	227-2	398-3	232-2	808-5	536-3	920-4	534-3	537-5	360-3	619-4	355-3	427-5	232-3	486-4	283-3
0.100	150-2	302-4	179-2	309-3	189-2	956-5	490-3	983-4	601-3	627-5	355-3	648-4	394-3	477-5	231-3	496-4	299-3
0.110	197-2	388-4	218-2	328-3	222-2	967-5	526-3	816-4	552-3	664-5	310-3	564-4	379-3	569-5	206-3	483-4	325-3
0.120	189-2	417-4	215-2	296-3	218-2	133-4	563-3	833-4	618-3	775-5	353-3	552-4	406-3	649-5	240-3	470-4	340-3
0.130	152-2	336-4	160-2	203-3	162-2	133-4	563-3	810-4	646-3	860-5	348-3	523-4	415-3	735-5	268-3	445-4	355-3
0.140	148-2	361-4	159-2	188-3	162-2	121-4	503-3	633-4	544-3	100-4	348-3	530-4	450-3	847-5	271-3	441-4	380-3
0.150	137-2	547-4	220-2	248-3	229-2	182-4	637-3	834-4	765-3	129-4	440-3	597-4	543-3	107-4	336-3	498-4	448-3
0.160	100-2	445-4	168-2	177-3	174-2	225-4	831-3	905-4	884-3	151-4	529-3	606-4	596-3	135-4	406-3	546-4	533-3
0.170	211-2	584-4	215-2	206-3	216-2	235-4	842-3	833-4	872-3	195-4	644-3	698-4	721-3	170-4	542-3	605-4	630-3
0.180	115-2	428-4	149-2	135-3	149-2	314-4	108-2	995-4	109-2	270-4	829-3	858-4	944-3	223-4	701-3	714-4	779-3
0.190	438-3	848-4	264-2	240-3	280-2	502-4	142-2	142-3	166-2	406-4	119-2	116-3	134-2	296-4	859-3	849-4	979-3
0.200	340-2	154-3	495-2	395-3	486-2	895-4	267-2	227-3	281-2	583-4	160-2	149-3	183-2	361-4	978-3	949-4	113-2
0.220	285-2	124-3	354-2	263-3	356-2	737-4	208-2	156-3	210-2	617-4	164-2	131-3	176-2	446-4	111-2	937-4	127-2
0.240	248-2	182-3	481-2	323-3	476-2	797-4	207-2	142-3	208-2	588-4	147-2	104-3	154-2	469-4	108-2	832-4	122-2
0.260	193-2	179-3	435-2	271-3	433-2	791-4	181-2	119-3	191-2	566-4	122-2	848-4	136-2	482-4	104-2	743-4	116-2
0.280	477-2	231-3	511-2	302-3	519-2	114-3	239-2	150-3	257-2	767-4	162-2	100-3	172-2	583-4	120-2	792-4	130-2
0.300	848-2	432-3	903-2	491-3	906-2	162-3	333-2	184-3	335-2	945-4	191-2	106-3	157-2	653-4	131-2	762-4	136-2
0.320	341-2	212-3	410-2	212-3	417-2	131-3	258-2	131-3	257-2	858-4	170-2	867-4	168-2	620-4	117-2	630-4	121-2
0.340	399-2	287-3	534-2	254-3	531-2	117-3	218-2	103-3	216-2	838-4	157-2	743-4	154-2	666-4	122-2	597-4	123-2
0.360	320-2	214-3	340-2	169-3	373-2	987-4	185-2	775-4	172-2	812-4	143-2	639-4	141-2	694-4	128-2	562-4	121-2
0.380	103-2	182-3	294-2	129-3	301-2	118-3	194-2	838-4	155-2	888-4	154-2	638-4	146-2	707-4	129-2	509-4	116-2
0.400	982-3	155-3	251-2	991-4	243-2	104-3	176-2	663-4	163-2	836-4	145-2	541-4	131-2	684-4	122-2	447-4	107-2
0.420	170-2	178-3	258-2	103-3	266-2	125-3	185-2	732-4	188-2	949-4	135-2	558-4	147-2	801-4	110-2	424-4	114-2
0.440	285-2	288-3	410-2	152-3	412-2	140-3	189-2	740-4	200-2	103-3	129-2	552-4	142-2	715-4	110-2	424-4	114-2
0.460	892-3	256-3	349-2	124-3	350-2	175-3	233-2	849-4	239-2	118-3	154-2	572-4	161-2	868-4	111-2	427-4	118-2
0.480	667-2	554-3	716-2	245-3	725-2	190-3	252-2	843-4	249-2	127-3	162-2	565-4	166-2	905-4	122-2	413-4	118-2
0.500	415-2	492-3	614-2	201-3	618-2	213-3	263-2	873-4	268-2	136-3	179-2	559-4	171-2	908-4	129-2	382-4	114-2
0.550	374-2	436-3	466-2	147-3	498-2	207-3	262-2	700-4	236-2	144-3	190-2	490-4	165-2	102-3	148-2	354-4	116-2
0.600	342-2	375-3	386-2	106-3	393-2	165-3	172-2	471-4	173-2	133-3	141-2	382-4	139-2	105-3	129-2	308-4	110-2
0.650	149-2	202-3	184-2	490-4	196-2	126-3	124-2	308-4	122-2	113-3	101-2	275-4	109-2	102-3	114-2	255-4	988-3
0.700	292-2	331-3	292-2	691-4	297-2	195-3	164-2	409-4	175-2	147-3	136-2	309-4	132-2	113-3	121-2	243-4	101-2

IIHH118 71.039.0 8639 LINCOLN AVE., BASEMENT, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.75	154-2	283-3	192-2	514-4	237-2	163-3	156-2	296-4	136-2	140-3	137-2	257-4	117-2	132-3	122-2	248-4	110-2
0.80	164-2	367-3	249-2	587-4	288-2	198-3	150-2	317-4	156-2	176-3	137-2	284-4	138-2	150-3	122-2	244-4	118-2
0.85	290-2	551-3	395-2	781-4	407-2	322-3	218-2	455-4	238-2	258-3	178-2	368-4	191-2	194-3	138-2	281-4	144-2
0.90	585-2	983-3	671-2	124-3	686-2	402-3	260-2	508-4	281-2	323-3	213-2	409-4	225-2	228-3	155-2	295-4	159-2
0.95	166-2	675-3	452-2	765-4	446-2	508-3	321-2	576-4	336-2	371-3	242-2	422-4	245-2	243-3	163-2	278-4	161-2
1.00	683-2	137-2	828-2	140-3	865-2	589-3	358-2	603-4	370-2	401-3	247-2	412-4	252-2	278-3	162-2	294-4	174-2
1.10	180-2	573-3	355-2	485-4	327-2	476-3	300-2	403-4	272-2	382-3	244-2	325-4	218-2	295-3	190-2	260-4	169-2
1.20	456-2	901-3	456-2	640-4	472-2	414-3	231-2	294-4	216-2	321-3	212-2	229-4	168-2	301-3	187-2	215-4	157-2
1.30	678-2	151-2	720-2	916-4	731-2	761-3	346-2	460-4	367-2	434-3	201-2	264-4	210-2	348-3	162-2	212-4	168-2
1.40	402-2	110-2	469-2	576-4	495-2	758-3	267-2	396-4	340-2	577-3	185-2	302-4	259-2	494-3	158-2	260-4	222-2
1.50	699-2	175-2	732-2	796-4	734-2	971-3	310-2	441-4	406-2	813-3	238-2	370-4	340-2	661-3	179-2	303-4	276-2
1.60	774-2	205-2	792-2	822-4	808-2	856-3	287-2	342-4	336-2	863-3	268-2	346-4	339-2	782-3	222-2	316-4	307-2
1.70	110-1	308-2	112-1	109-3	113-1	139-2	454-2	494-4	515-2	105-2	324-2	374-4	389-2	900-3	256-2	322-4	332-2
1.80	711-2	203-2	711-2	643-4	711-2	117-2	397-2	371-4	411-2	109-2	330-2	347-4	383-2	101-2	296-2	324-4	354-2
1.90	399-2	261-2	825-2	739-4	863-2	169-2	496-2	479-4	559-2	142-2	415-2	404-4	470-2	116-2	338-2	335-4	386-2
2.00	120-1	404-2	125-1	103-3	126-1	230-2	643-2	590-4	724-2	183-2	504-2	469-4	574-2	137-2	380-2	357-4	432-2
2.20	100-1	351-2	100-1	742-4	100-1	246-2	626-2	520-4	703-2	208-2	512-2	442-4	595-2	163-2	404-2	351-4	466-2
2.40	171-1	694-2	180-1	123-3	181-1	297-2	770-2	528-4	779-2	192-2	455-2	344-4	504-2	169-2	376-2	305-4	442-2
2.60	125-1	534-2	128-1	808-4	129-1	239-2	574-2	362-4	578-2	203-2	608-2	309-4	451-2	179-2	395-2	275-4	433-2
2.80	542-2	431-2	915-2	562-4	967-2	346-2	748-2	452-4	777-2	272-2	605-2	357-4	612-2	229-2	475-2	305-4	515-2
3.00	680-2	702-2	149-1	798-4	147-1	486-2	953-2	552-4	101-1	397-2	753-2	453-4	831-2	310-2	606-2	359-4	650-2
3.20	124-1	771-2	155-1	770-4	151-1	648-2	124-1	647-4	127-1	517-2	973-2	519-4	101-1	386-2	756-2	393-4	758-2
3.40	201-1	180-1	317-1	142-3	314-1	988-2	172-1	764-4	164-1	648-2	118-1	576-4	119-1	448-2	853-2	404-4	828-2
3.60	331-1	180-1	317-1	142-3	314-1	988-2	172-1	764-4	164-1	648-2	118-1	576-4	119-1	448-2	853-2	404-4	828-2
3.80	143-1	118-1	203-1	842-4	196-1	846-2	143-1	599-4	139-1	645-2	110-1	459-4	106-1	496-2	852-2	359-4	840-2
4.00	156-1	994-2	156-1	635-4	156-1	787-2	126-1	504-4	123-1	631-2	103-1	405-4	991-2	502-2	856-2	329-4	788-2
4.20	116-1	105-1	160-1	609-4	157-1	819-2	128-1	475-4	122-1	663-2	108-1	387-4	993-2	502-2	883-2	299-4	751-2
4.40	958-2	106-1	162-1	514-4	145-1	878-2	134-1	425-4	120-1	689-2	107-1	335-4	941-2	504-2	818-2	250-4	689-2
4.60	990-2	100-1	141-1	447-4	132-1	827-2	117-1	367-4	108-1	648-2	928-2	290-4	848-2	478-2	717-2	219-4	626-2
4.80	636-2	833-2	125-1	340-4	104-1	690-2	105-1	282-4	867-2	544-2	865-2	223-4	683-2	424-2	662-2	179-4	532-2
5.00	628-2	550-2	766-2	186-4	628-2	456-2	676-2	154-4	521-2	387-2	582-2	132-4	443-2	316-2	503-2	110-4	361-2
5.20	287-2	343-2	460-2	975-5	359-2	294-2	408-2	838-5	308-2	252-2	389-2	727-5	264-2	238-2	418-2	722-5	249-2
5.40	606-3	393-2	536-2	953-5	380-2	335-2	493-2	814-5	324-2	282-2	453-2	694-5	272-2	239-2	418-2	625-5	231-2
5.60	441-2	500-2	544-2	104-4	448-2	339-2	502-2	709-5	304-2	291-2	457-2	616-5	261-2	246-2	410-2	536-5	221-2
5.80	244-2	350-2	444-2	636-5	293-2	305-2	416-2	556-5	255-2	271-2	390-2	498-5	227-2	235-2	374-2	452-5	196-2
6.00	439-3	324-2	369-2	518-5	254-2	299-2	361-2	479-5	235-2	270-2	349-2	439-5	212-2	238-2	335-2	405-5	187-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP SUSW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

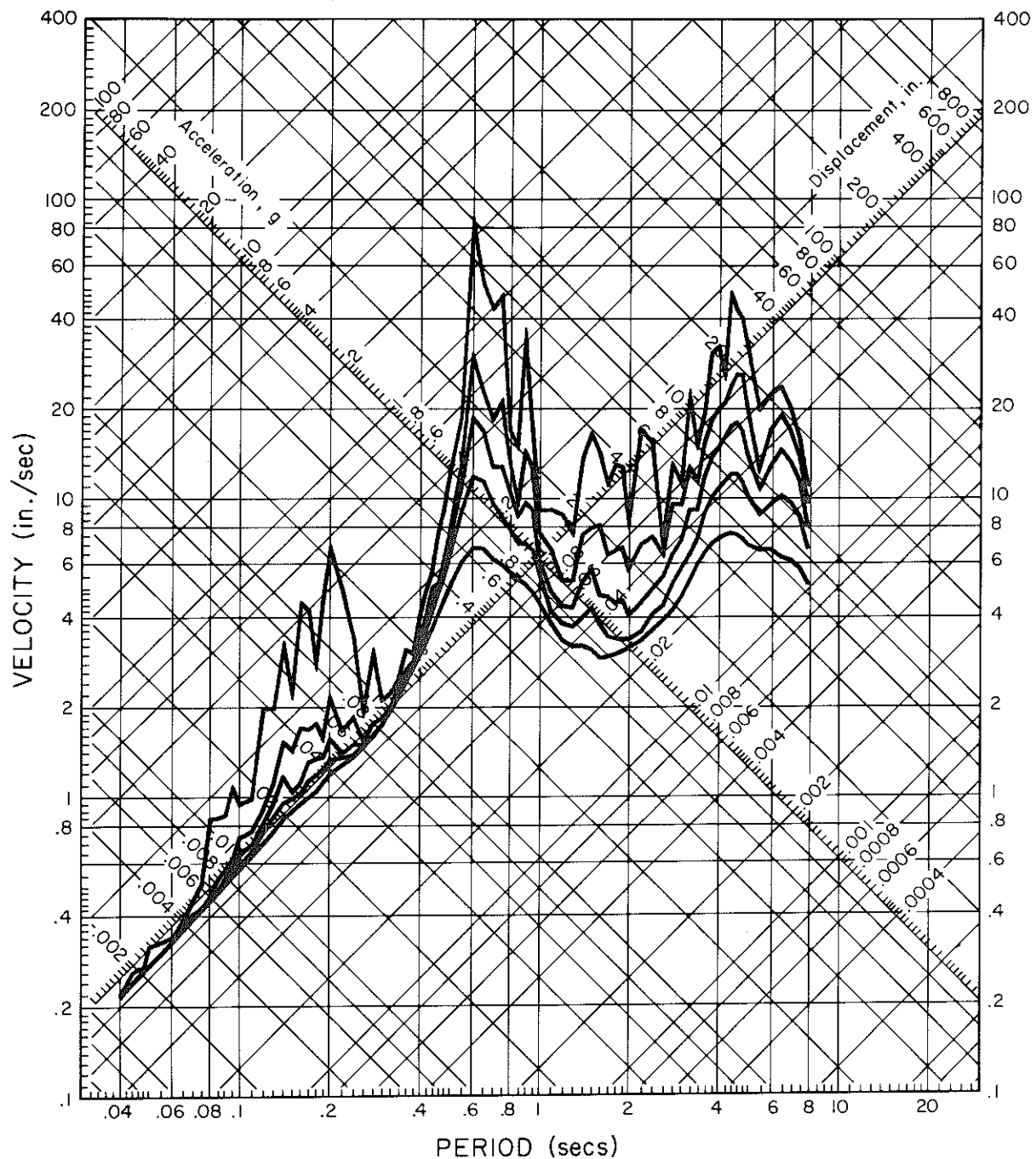


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP S45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP S45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

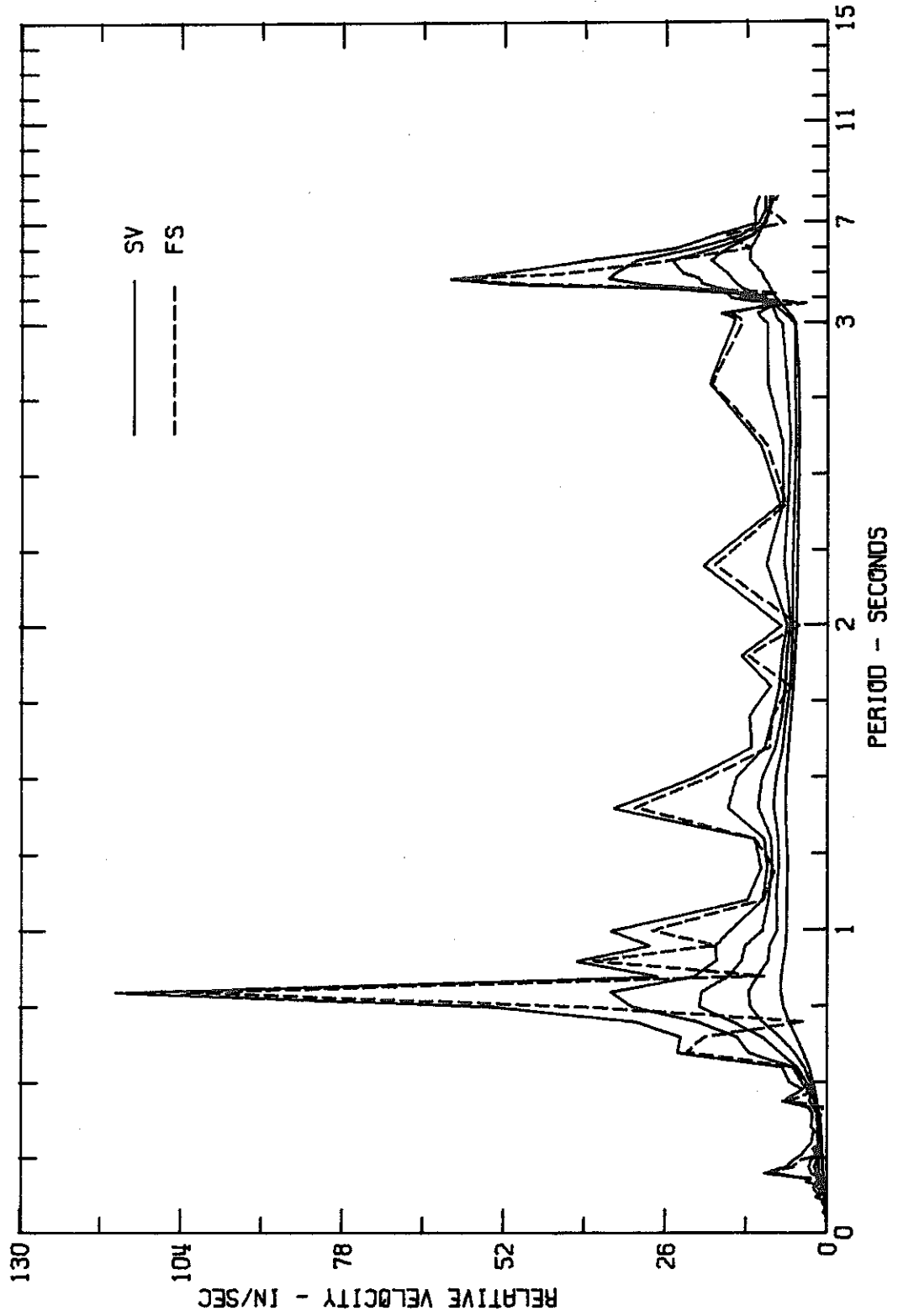
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	433-5	140-5	272-4	898-4	220-3	137-5	212-4	878-4	215-3	137-5	185-4	881-4	216-3	138-5	188-4	884-4	217-3
0.042	265-4	159-5	370-4	925-4	238-3	153-5	219-4	889-4	229-3	152-5	210-4	885-4	228-3	152-5	208-4	885-4	217-3
0.044	168-4	181-5	429-4	960-4	259-3	167-5	239-4	885-4	239-3	168-5	233-4	888-4	240-3	168-5	231-4	887-4	239-3
0.046	156-4	197-5	434-4	953-4	269-3	185-5	242-4	897-4	253-3	184-5	254-4	892-4	252-3	184-5	254-4	889-4	251-3
0.048	318-4	205-5	586-4	912-4	269-3	201-5	308-4	896-4	264-3	201-5	286-4	893-4	263-3	200-5	280-4	890-4	262-3
0.050	533-4	252-5	718-4	103-3	317-3	218-5	287-4	894-4	274-3	217-5	306-4	890-4	273-3	217-5	305-4	889-4	273-3
0.055	789-4	287-5	923-4	973-4	328-3	263-5	406-4	891-4	301-3	263-5	380-4	889-4	300-3	263-5	367-4	891-4	300-3
0.060	213-4	326-5	747-4	928-4	342-3	315-5	424-4	897-4	330-3	316-5	407-4	898-4	331-3	315-5	425-4	898-4	330-3
0.065	101-4	401-5	108-3	971-4	388-3	374-5	606-4	906-4	361-3	373-5	525-4	904-4	361-3	374-5	515-4	906-4	361-3
0.070	134-3	504-5	186-3	112-3	452-3	454-5	737-4	948-4	407-3	445-5	676-4	930-4	400-3	438-5	644-4	918-4	394-3
0.075	158-3	616-5	199-3	112-3	516-3	509-5	928-4	926-4	426-3	510-5	878-4	927-4	427-3	506-5	823-4	921-4	424-3
0.080	496-3	108-4	568-3	172-3	848-3	596-5	150-3	954-4	468-3	575-5	119-3	919-4	451-3	577-5	106-3	922-4	453-3
0.085	936-4	115-4	547-3	162-3	850-3	722-5	237-3	102-3	533-3	660-5	169-3	935-4	488-3	657-5	132-3	929-4	485-3
0.090	157-3	125-4	453-3	158-3	874-3	827-5	207-3	104-3	577-3	773-5	171-3	975-4	539-3	745-5	158-3	942-4	520-3
0.095	576-3	162-4	638-3	184-3	107-2	943-5	261-3	107-3	624-3	871-5	191-3	986-4	576-3	837-5	176-3	976-4	594-3
0.100	202-3	150-4	612-3	154-3	946-3	116-4	261-3	119-3	733-3	103-4	199-3	105-3	648-3	945-5	176-3	976-4	594-3
0.110	405-3	173-4	574-3	146-3	990-3	134-4	341-3	114-3	770-3	121-4	287-3	103-3	694-3	115-4	233-3	977-4	661-3
0.120	122-2	379-4	152-2	269-3	198-2	174-4	629-3	123-3	911-3	155-4	379-3	110-3	815-3	145-4	322-3	104-3	761-3
0.130	995-3	413-4	159-2	249-3	199-2	231-4	509-3	139-3	111-2	197-4	545-3	119-3	956-3	178-4	427-3	108-3	864-3
0.140	194-2	722-4	307-2	377-3	324-2	340-4	969-3	177-3	152-2	260-4	695-3	135-3	116-2	213-4	501-3	112-3	959-3
0.150	177-2	538-4	201-2	244-3	225-2	340-4	111-2	154-3	142-2	248-4	821-3	114-3	104-2	235-4	551-3	108-3	986-3
0.160	263-2	114-3	413-2	458-3	450-2	437-4	147-2	175-3	171-2	288-4	853-3	114-3	113-2	263-4	577-3	105-3	103-2
0.170	298-2	114-3	379-2	405-3	423-2	508-4	129-2	161-3	177-2	382-4	919-3	120-3	133-2	339-4	724-3	108-3	118-2
0.180	244-2	809-4	245-2	255-3	282-2	508-4	129-2	161-3	177-2	382-4	919-3	120-3	133-2	339-4	724-3	108-3	118-2
0.190	432-2	143-3	450-2	405-3	472-2	475-4	121-2	135-3	157-2	410-4	942-3	116-3	135-2	374-4	751-3	106-3	123-2
0.200	645-2	218-3	649-2	559-3	687-2	691-4	180-2	175-3	175-3	217-2	497-4	102-2	149-2	422-4	749-3	107-3	132-2
0.220	341-2	174-3	435-2	368-3	497-2	587-4	134-2	123-3	167-2	490-4	890-3	103-3	140-2	472-4	700-3	100-3	134-2
0.240	204-2	132-3	298-2	235-3	346-2	712-4	133-2	126-3	186-2	572-4	101-2	101-3	149-2	527-4	784-3	935-4	138-2
0.260	782-3	805-4	134-2	121-3	194-2	633-4	987-3	960-4	153-2	618-4	905-3	934-4	149-2	616-4	830-3	932-4	148-2
0.280	158-2	136-3	248-2	178-3	306-2	797-4	102-2	104-3	178-2	722-4	969-3	939-4	162-2	714-4	909-3	932-4	160-2
0.300	771-3	101-3	129-2	115-3	212-2	878-4	106-2	998-4	184-2	842-4	102-2	957-4	176-2	839-4	102-2	953-4	175-2
0.320	820-3	114-3	150-2	114-3	225-2	103-3	121-2	102-3	202-2	103-3	121-2	103-3	203-2	101-3	117-2	101-3	199-2
0.340	226-3	136-3	140-2	120-3	251-2	128-3	136-2	114-3	238-2	125-3	136-2	110-3	231-2	122-3	133-2	108-3	225-2
0.360	102-2	180-3	208-2	142-3	314-2	154-3	162-2	121-3	269-2	148-3	154-2	117-3	258-2	144-3	153-2	115-3	252-2
0.380	862-3	184-3	210-2	130-3	305-2	175-3	192-2	123-3	289-2	170-3	186-2	121-3	282-2	170-3	179-2	121-3	281-2
0.400	150-2	262-3	287-2	167-3	411-2	217-3	247-2	138-3	341-2	204-3	231-2	131-3	320-2	202-3	214-2	130-3	318-2
0.420	128-2	335-3	397-2	194-3	502-2	273-3	316-2	158-3	409-2	256-3	284-2	149-3	384-2	245-3	259-2	143-3	367-2
0.440	337-2	407-3	511-2	215-3	581-2	358-3	386-2	189-3	512-2	323-3	343-2	171-3	462-2	297-3	307-2	158-3	425-2
0.460	469-2	565-3	624-2	273-3	771-2	385-3	407-2	186-3	526-2	381-3	384-2	184-3	521-2	354-3	361-2	173-3	484-2
0.480	252-2	709-3	871-2	314-3	928-2	477-3	529-2	212-3	624-2	456-3	459-2	203-3	598-2	424-3	423-2	190-3	555-2
0.500	850-2	939-3	107-1	384-3	118-1	601-3	620-2	246-3	755-2	562-3	566-2	231-3	706-2	503-3	500-2	209-3	635-2
0.550	462-2	166-2	177-1	563-3	190-1	116-2	121-1	395-3	133-1	972-3	970-2	331-3	111-1	802-3	782-2	275-3	916-2
0.600	747-1	799-2	828-1	1227-2	831-1	288-2	294-1	818-3	302-1	180-2	185-1	516-3	189-1	114-2	113-1	331-3	119-1
0.650	404-1	549-2	528-1	132-2	531-1	238-2	232-1	578-3	230-1	175-2	172-1	427-3	170-1	119-2	116-1	295-3	115-1
0.700	342-1	490-2	438-1	102-2	440-1	208-2	187-1	436-3	187-1	144-2	136-1	304-3	129-1	108-2	102-1	230-3	970-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	484-1	579-2	485-1	105-2	485-1	256-2	222-1	467-3	215-1	154-2	136-1	283-3	129-1	104-2	911-2	194-3	877-2
0.80	130-1	217-2	181-1	347-3	170-1	169-2	134-1	271-3	132-1	135-2	110-1	217-3	106-1	101-2	819-2	165-3	794-2
0.85	661-2	204-2	151-1	289-3	151-1	133-2	103-1	189-3	990-2	119-2	929-2	170-3	885-2	962-3	775-2	139-3	711-2
0.90	343-1	496-2	343-1	626-3	346-1	208-2	154-1	263-3	145-1	140-2	106-1	178-3	982-2	102-2	759-2	132-3	715-2
0.95	114-1	271-2	191-1	307-3	179-1	193-2	138-1	219-3	127-1	139-2	101-1	155-3	922-2	102-2	754-2	119-3	677-2
1.00	923-2	146-2	103-1	149-3	921-2	123-2	904-2	126-3	774-2	100-2	773-2	103-3	631-2	908-3	686-2	957-4	570-2
1.10	181-2	162-2	112-1	137-3	926-2	118-2	732-2	100-3	678-2	858-3	556-2	730-4	490-2	736-3	550-2	642-4	420-2
1.20	648-2	170-2	867-2	120-3	890-2	102-2	618-2	726-4	534-2	839-3	526-2	600-4	439-2	734-3	509-2	541-4	384-2
1.30	349-2	159-2	876-2	964-4	770-2	110-2	712-2	672-4	536-2	898-3	607-2	548-4	434-2	777-3	527-2	487-4	375-2
1.40	111-1	305-2	133-1	159-3	137-1	170-2	701-2	892-4	766-2	118-2	590-2	621-4	532-2	897-3	525-2	486-4	402-2
1.50	158-1	398-2	164-1	181-3	167-1	192-2	865-2	877-4	808-2	139-2	642-2	641-4	585-2	103-2	517-2	489-4	432-2
1.60	110-1	364-2	144-1	145-3	143-1	209-2	917-2	837-4	823-2	121-2	676-2	489-4	478-2	972-3	549-2	408-4	381-2
1.70	110-1	306-2	112-1	108-3	113-1	177-2	621-2	627-4	654-2	128-2	535-2	456-4	474-2	939-3	511-2	341-4	347-2
1.80	852-2	377-2	125-1	119-3	131-1	193-2	643-2	611-4	675-2	128-2	571-2	407-4	448-2	981-3	487-2	318-4	342-2
1.90	925-2	389-2	127-1	110-3	128-1	209-2	655-2	593-4	692-2	130-2	570-2	396-4	461-2	102-2	493-2	296-4	339-2
2.00	333-2	267-2	856-2	682-4	838-2	185-2	677-2	475-4	583-2	130-2	574-2	334-4	409-2	108-2	501-2	279-4	340-2
2.20	130-1	602-2	168-1	127-3	171-1	248-2	927-2	526-4	710-2	158-2	726-2	338-4	453-2	126-2	566-2	283-4	361-2
2.40	134-1	591-2	146-1	105-3	154-1	287-2	820-2	510-4	752-2	193-2	622-2	348-4	506-2	158-2	522-2	297-4	414-2
2.60	484-2	298-2	806-2	451-4	720-2	271-2	738-2	410-4	654-2	229-2	654-2	349-4	555-2	183-2	552-2	282-4	442-2
2.80	117-1	585-2	128-1	763-4	131-1	433-2	957-2	566-4	973-2	294-2	653-2	385-4	660-2	233-2	581-2	311-4	524-2
3.00	111-1	539-2	111-1	612-4	112-1	461-2	932-2	525-4	967-2	352-2	732-2	402-4	738-2	283-2	597-2	328-4	593-2
3.20	185-1	113-1	217-1	113-3	222-1	656-2	130-1	655-4	128-1	473-2	962-2	475-4	930-2	335-2	746-2	362-4	748-2
3.40	954-2	828-2	156-1	733-4	153-1	624-2	118-1	552-4	115-1	503-2	123-1	550-4	121-1	523-2	929-2	419-4	913-2
3.60	148-1	113-1	190-1	893-4	197-1	902-2	155-1	712-4	157-1	695-2	148-1	617-4	151-1	697-2	102-1	453-4	109-1
3.80	184-1	188-1	306-1	133-3	311-1	113-1	184-1	803-4	187-1	847-2	142-1	602-4	140-1	622-2	103-1	448-4	103-1
4.00	325-1	209-1	327-1	133-3	328-1	129-1	201-1	825-4	202-1	962-2	148-1	617-4	163-1	777-2	112-1	460-4	116-1
4.20	228-1	176-1	261-1	102-3	263-1	142-1	208-1	826-4	213-1	109-1	160-1	637-4	177-1	856-2	118-1	461-4	122-1
4.40	452-1	342-1	490-1	181-3	489-1	169-1	239-1	896-4	242-1	124-1	175-1	659-4	177-1	896-2	122-1	442-4	122-1
4.60	416-1	318-1	445-1	153-3	434-1	193-1	275-1	935-4	264-1	133-1	184-1	648-4	182-1	896-2	122-1	442-4	122-1
4.80	268-1	309-1	418-1	137-3	405-1	200-1	272-1	890-4	262-1	130-1	178-1	580-4	170-1	878-2	127-1	399-4	115-1
5.00	329-1	263-1	331-1	107-3	331-1	161-1	210-1	660-4	202-1	112-1	156-1	464-4	141-1	818-2	122-1	343-4	102-1
5.50	100-1	176-1	213-1	595-4	201-1	110-1	146-1	375-4	126-1	951-2	121-1	324-4	108-1	779-2	101-1	271-4	890-2
6.00	109-1	217-1	239-1	616-4	227-1	165-1	190-1	470-4	173-1	125-1	151-1	358-4	131-1	927-2	118-1	269-4	971-2
6.50	209-1	246-1	249-1	597-4	238-1	200-1	209-1	485-4	193-1	152-1	168-1	372-4	147-1	106-1	129-1	267-4	103-1
7.00	193-1	225-1	222-1	469-4	202-1	188-1	192-1	393-4	169-1	149-1	159-1	313-4	133-4	108-1	125-1	233-4	973-2
7.50	130-1	192-1	186-1	350-4	161-1	166-1	164-1	130-4	139-1	137-1	137-1	251-4	114-1	104-1	107-1	196-4	876-2
8.00	102-1	141-1	142-1	226-4	111-1	123-1	128-1	198-4	973-2	103-1	117-1	167-4	814-2	873-2	100-1	147-4	685-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP S45E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

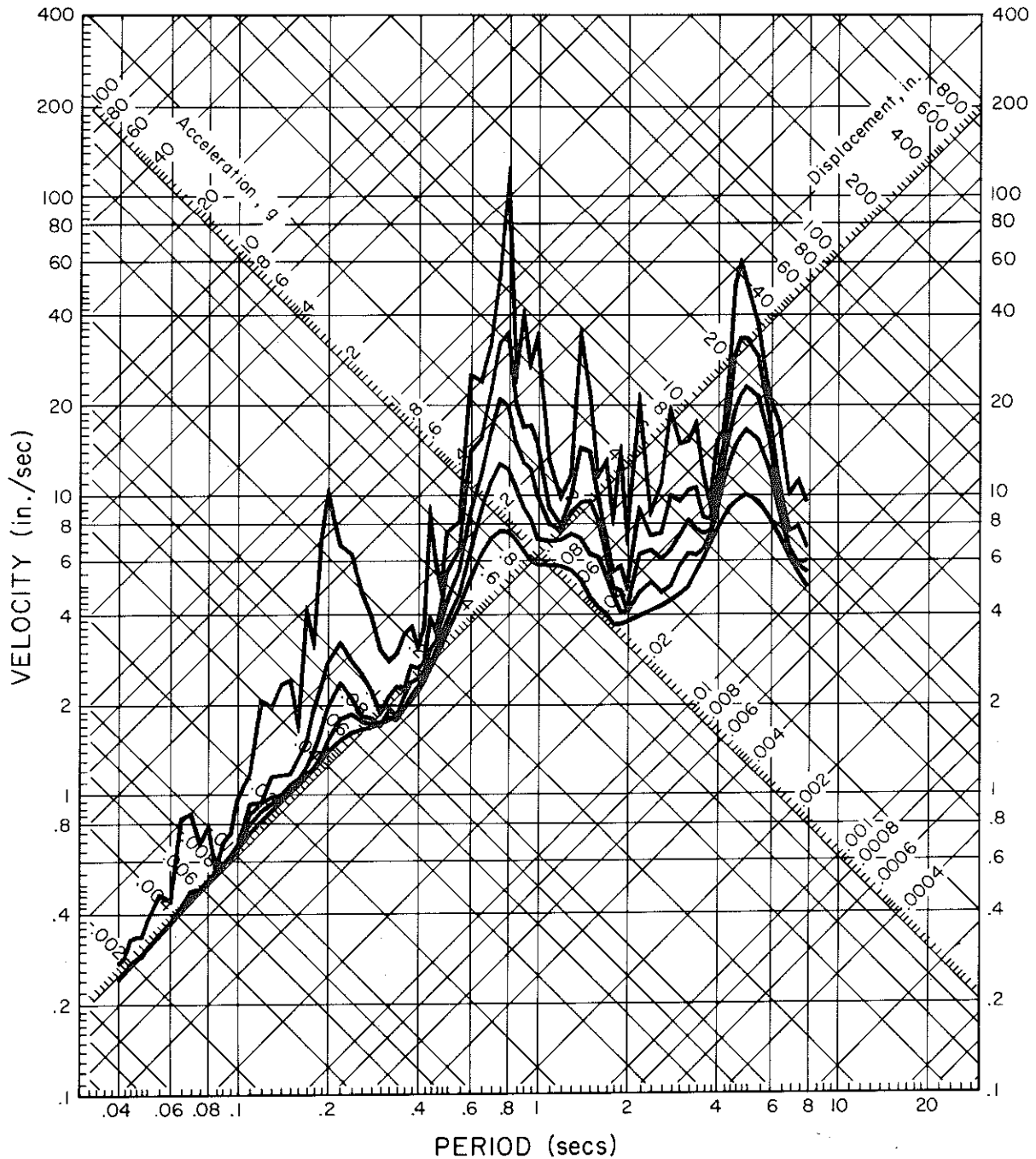


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP S4SE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIHH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP \$45E
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

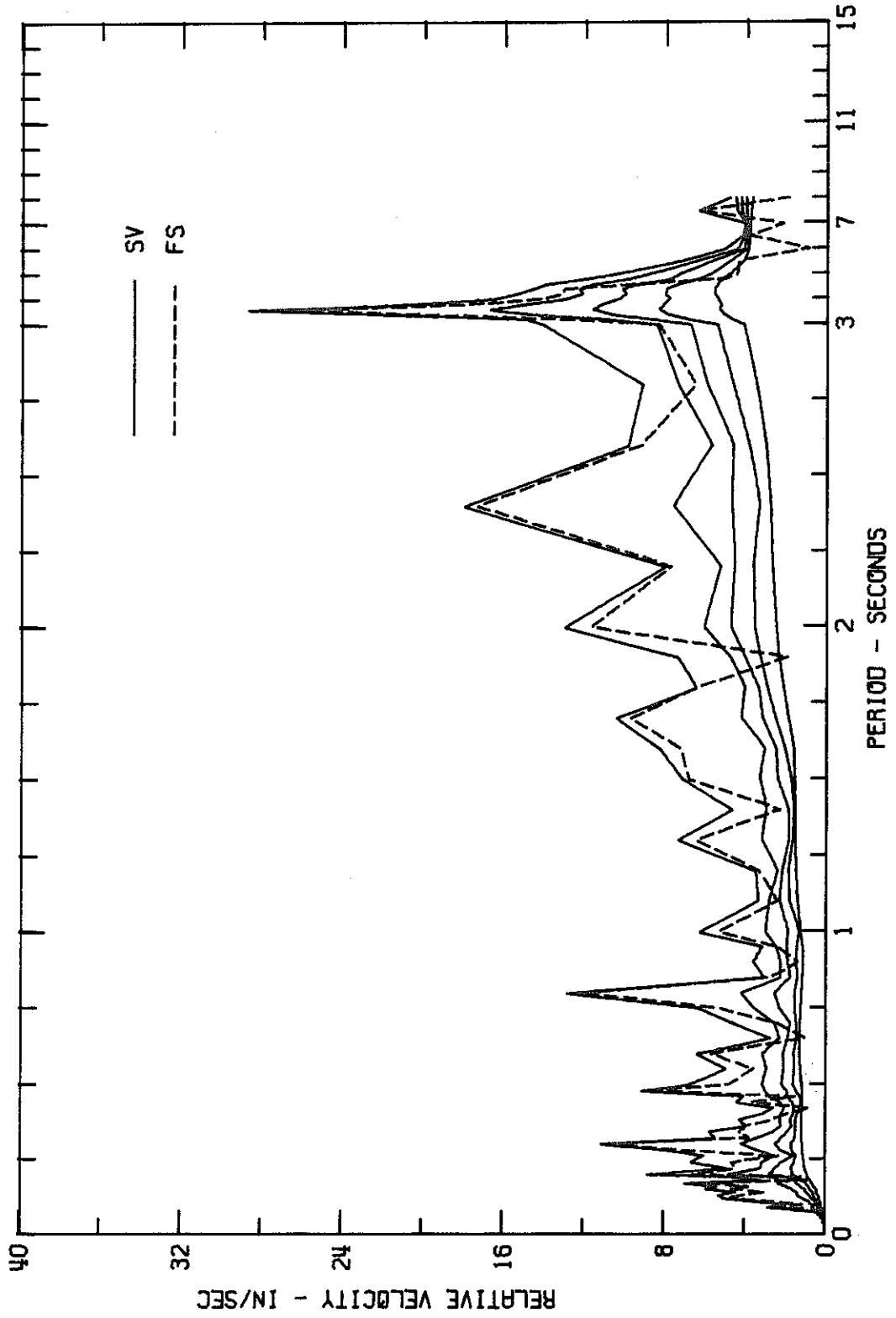
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	430-4	174-5	544-4	111-3	273-3	153-5	364-4	982-4	241-3	154-5	329-4	987-4	242-3	154-5	310-4	989-4	243-3	154-5	275-4	989-4	242-3	154-5	310-4	989-4	243-3	154-5	275-4	989-4	242-3	154-5	310-4	989-4	243-3																
0.042	311-4	191-5	622-4	111-3	286-3	170-5	396-4	986-4	254-3	170-5	348-4	989-4	255-3	170-5	320-4	991-4	255-3	170-5	286-4	990-4	255-3	170-5	320-4	991-4	255-3	170-5	286-4	990-4	255-3	170-5	320-4	991-4	255-3																
0.044	530-4	229-5	807-4	121-3	327-3	190-5	419-4	100-3	271-3	188-5	370-4	995-4	269-3	188-5	350-4	993-4	268-3	187-5	296-4	992-4	267-3	187-5	350-4	993-4	268-3	187-5	296-4	992-4	267-3	187-5	350-4	993-4	268-3																
0.046	670-4	245-5	867-4	118-3	335-3	207-5	431-4	100-3	282-3	205-5	380-4	995-4	281-3	205-5	351-4	995-4	280-3	205-5	305-4	994-4	280-3	205-5	351-4	995-4	281-3	205-5	305-4	994-4	280-3	205-5	351-4	995-4	281-3																
0.048	275-4	256-5	799-4	114-3	336-3	221-5	466-4	981-4	289-3	223-5	411-4	991-4	292-3	224-5	370-4	996-4	293-3	224-5	320-4	997-4	293-3	224-5	370-4	996-4	293-3	224-5	320-4	997-4	293-3	224-5	370-4	996-4	293-3																
0.050	630-4	299-5	104-3	122-3	376-3	245-5	474-4	100-3	308-3	244-5	421-4	100-3	307-3	244-5	383-4	100-3	306-3	243-5	340-4	999-4	306-3	243-5	383-4	100-3	306-3	243-5	340-4	999-4	306-3	243-5	383-4	100-3	306-3																
0.055	164-3	405-5	174-3	137-3	463-3	299-5	546-4	101-3	342-3	299-5	484-4	101-3	342-3	298-5	408-4	101-3	341-3	296-5	366-4	100-3	339-3	296-5	408-4	101-3	341-3	296-5	366-4	100-3	339-3	296-5	408-4	101-3	341-3																
0.060	119-3	422-5	149-3	119-3	442-3	359-5	605-4	102-3	376-3	356-5	536-4	101-3	373-3	357-5	483-4	101-3	374-3	355-5	440-4	101-3	372-3	357-5	483-4	101-3	374-3	355-5	440-4	101-3	372-3	357-5	483-4	101-3	374-3																
0.065	392-3	862-5	493-3	208-3	833-3	437-5	941-4	105-3	422-3	428-5	650-4	103-3	414-3	425-5	578-4	102-3	411-3	420-5	518-4	102-3	406-3	425-5	578-4	102-3	411-3	420-5	518-4	102-3	406-3	425-5	578-4	102-3	411-3																
0.070	473-3	959-5	584-3	200-3	861-3	530-5	115-3	110-3	476-3	510-5	789-4	106-3	458-3	499-5	670-4	104-3	448-3	492-5	621-4	103-3	441-3	499-5	670-4	104-3	448-3	492-5	621-4	103-3	441-3	499-5	670-4	104-3	448-3																
0.075	174-3	821-5	301-3	149-3	688-3	577-5	986-4	105-3	484-3	578-5	803-4	105-3	484-3	576-5	766-4	104-3	483-3	568-5	739-4	103-3	476-3	576-5	766-4	104-3	483-3	568-5	739-4	103-3	476-3	576-5	766-4	104-3	483-3																

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	395-1	660-2	538-1	120-2	553-1	391-2	316-1	711-3	327-1	252-2	207-1	461-3	211-1	152-2	124-1	283-3	128-1	915-3	721-2	178-3	766-2
0.80	103 0	146-1	114 0	233-2	114 0	450-2	348-1	720-3	353-1	253-2	201-1	407-3	199-1	156-2	127-1	254-3	122-1	966-3	759-2	165-3	759-2
0.85	102-1	348-2	272-1	493-3	257-1	273-2	214-1	387-3	202-1	202-2	159-1	288-3	149-1	142-2	112-1	205-3	105-1	963-3	746-2	147-3	712-2
0.90	376-1	578-2	404-1	730-3	403-1	243-2	178-1	307-3	170-1	185-2	137-1	235-3	129-1	130-2	960-2	168-3	909-2	936-3	707-2	128-3	653-2
0.95	180-1	417-2	285-1	472-3	275-1	261-2	175-1	296-3	172-1	185-2	131-1	211-3	122-1	126-2	928-2	146-3	834-2	923-3	675-2	113-3	611-2
1.00	282-1	543-2	348-1	555-3	341-1	238-2	156-1	243-3	149-1	159-2	104-1	163-3	999-2	114-2	811-2	120-3	719-2	939-3	661-2	104-3	590-2
1.10	102-1	228-2	127-1	192-3	130-1	158-2	103-1	134-3	905-2	140-2	946-2	119-3	804-2	123-2	821-2	107-3	704-2	102-2	650-2	954-4	586-2
1.20	845-2	187-2	107-1	133-3	983-2	152-2	971-2	108-3	795-2	146-2	893-2	105-3	769-2	136-2	792-2	994-4	712-2	110-2	638-2	878-4	581-2
1.30	118-1	244-2	118-1	148-3	118-1	207-2	103-1	125-3	100-1	183-2	919-2	112-3	888-2	154-2	799-2	967-4	748-2	116-2	671-2	797-4	563-2
1.40	309-1	772-2	344-1	403-3	346-1	324-2	161-1	169-3	145-1	212-2	111-1	111-3	955-2	160-2	873-2	867-4	721-2	116-2	684-2	698-4	522-2
1.50	190-1	530-2	214-1	240-3	222-1	335-2	146-1	152-3	140-1	229-2	104-1	105-3	962-2	152-2	826-2	710-4	639-2	109-2	669-2	584-4	459-2
1.60	934-2	298-2	122-1	119-3	117-1	252-2	100-1	101-3	991-2	210-2	838-2	847-4	827-2	159-2	727-2	653-4	625-2	108-2	635-2	483-4	425-2
1.70	894-2	354-2	127-1	125-3	131-1	199-2	871-2	708-4	738-2	173-2	733-2	617-4	640-2	146-2	664-2	532-4	540-2	109-2	596-2	436-4	403-2
1.80	613-2	241-2	921-2	762-4	843-2	159-2	769-2	504-4	557-2	140-2	677-2	447-4	490-2	132-2	600-2	431-4	462-2	106-2	558-2	384-4	372-2
1.90	127-1	420-2	140-1	119-3	139-1	176-2	733-2	501-4	585-2	145-2	658-2	416-4	482-2	123-2	583-2	363-4	409-2	113-2	522-2	344-4	373-2
2.00	467-2	235-2	743-2	600-4	738-2	158-2	659-2	405-4	497-2	131-2	603-2	339-4	414-2	129-2	560-2	338-4	405-2	121-2	497-2	334-4	380-2
2.20	181-1	721-2	200-1	152-3	206-1	316-2	698-2	670-4	904-2	224-2	710-2	476-4	640-2	167-2	564-2	364-4	478-2	139-2	491-2	321-4	398-2
2.40	677-2	335-2	768-2	595-4	878-2	282-2															

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

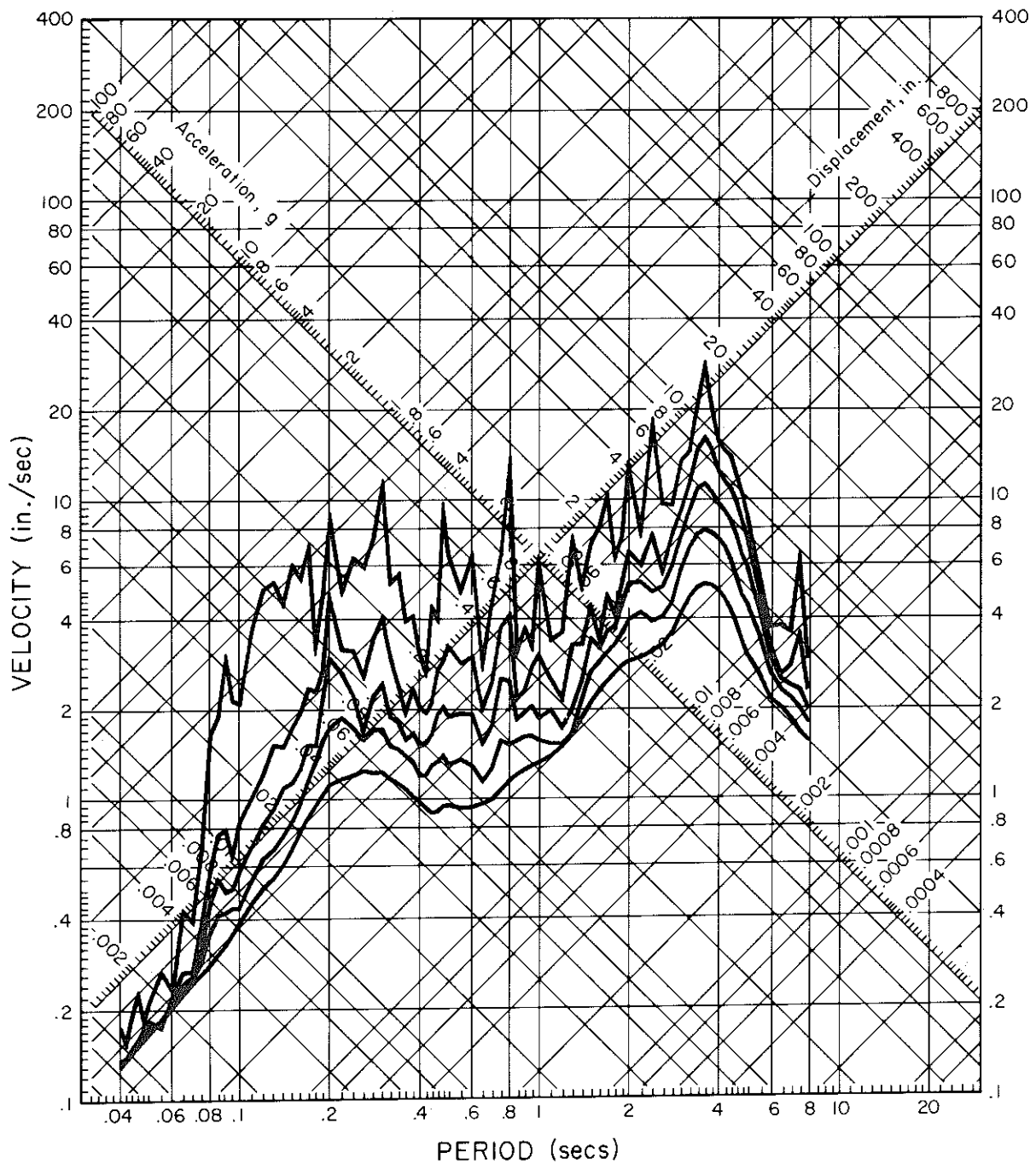


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SO AND G FOR SA

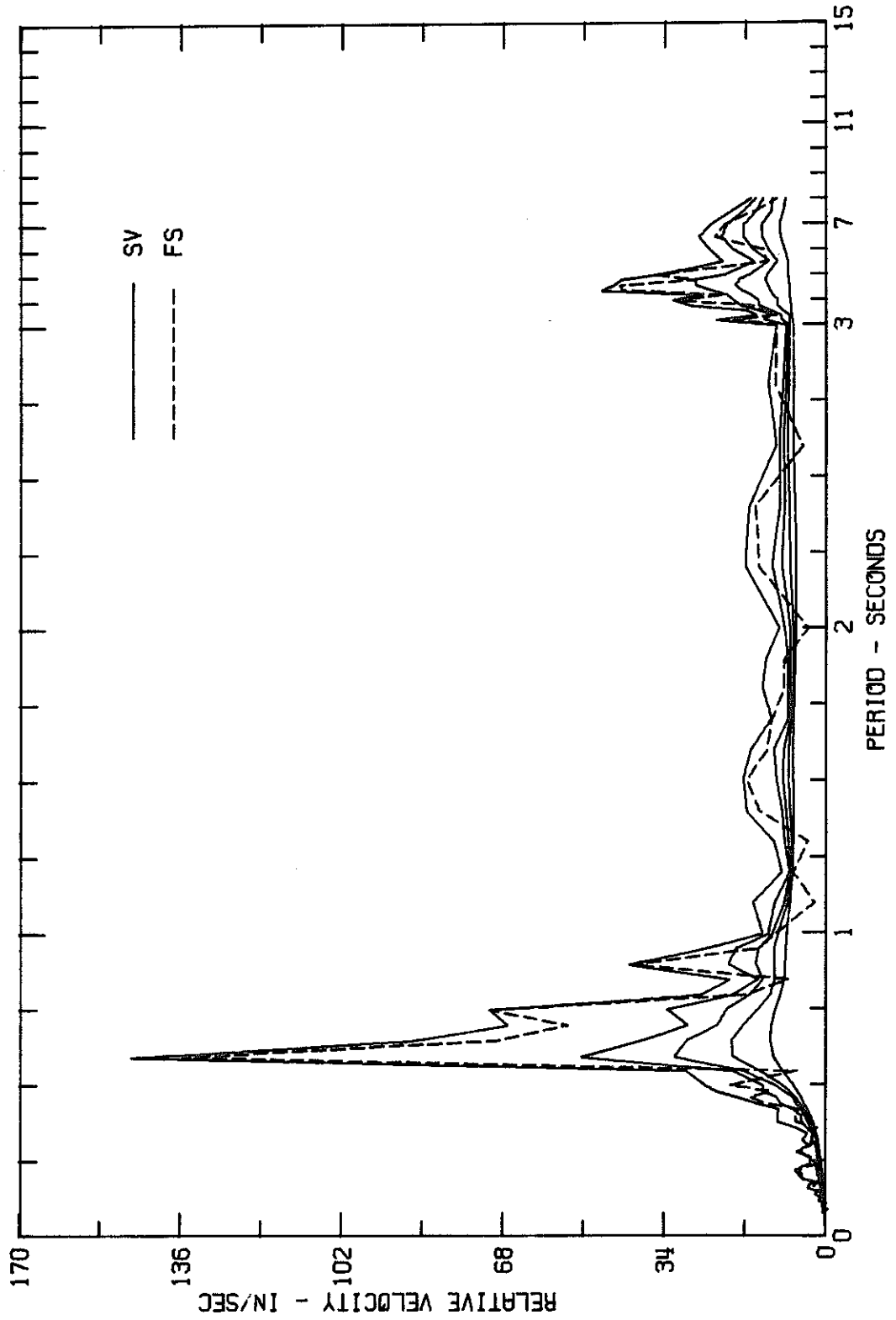
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
0.040	414-4	111-5	809-4	714-4	175-3	872-6	348-4	557-4	137-3	852-6	335-4	545-4	133-3	842-6	341-4	540-4	132-3	832-6	346-4	534-4	130-3	
0.042	240-4	104-5	530-4	604-4	156-3	929-6	370-4	539-4	139-3	941-6	369-4	546-4	140-3	936-6	378-4	544-4	140-3	923-6	383-4	537-4	138-3	
0.044	474-4	138-5	846-4	729-4	197-3	106-5	421-4	561-4	151-3	104-5	423-4	553-4	149-3	113-5	422-4	548-4	148-3	101-5	424-4	540-4	145-3	
0.046	502-4	166-5	112-3	804-4	227-3	117-5	477-4	568-4	160-3	116-5	476-4	561-4	158-3	114-5	470-4	554-4	156-3	112-5	468-4	544-4	153-3	
0.048	106-3	141-5	107-3	629-4	185-3	134-5	556-4	596-4	175-3	129-5	528-4	574-4	169-3	125-5	518-4	558-4	164-3	122-5	515-4	547-4	160-3	
0.050	247-4	169-5	959-4	695-4	213-3	147-5	561-4	602-4	185-3	140-5	565-4	575-4	176-3	136-5	565-4	557-4	171-3	133-5	565-4	548-4	168-3	
0.055	176-3	235-5	213-3	795-4	268-3	153-5	712-4	820-4	175-3	158-5	699-4	537-4	181-3	163-5	701-4	553-4	187-3	163-5	709-4	555-4	186-3	
0.060	130-3	220-5	158-3	626-4	231-3	154-5	110-3	610-4	224-3	207-5	955-4	590-4	217-3	201-5	895-4	573-4	211-3	197-5	890-4	564-4	206-3	
0.065	157-3	441-5	333-3	106-3	426-3	278-5	136-3	675-4	269-3	253-5	124-3	613-4	245-3	241-5	119-3	586-4	233-3	234-5	111-3	571-4	226-3	
0.070	227-3	438-5	352-3	915-4	393-3	301-5	189-3	631-4	270-3	289-5	171-3	601-4	260-3	284-5	158-3	591-4	255-3	274-5	138-3	577-4	246-3	
0.075	438-3	837-5	634-3	152-3	342-3	372-5	323-3	860-4	395-3	387-5	241-3	706-4	324-3	350-5	212-3	644-4	293-3	317-5	164-3	584-4	265-3	
0.080	122-2	214-4	158-2	348-3	168-2	745-5	471-3	119-3	585-3	583-5	360-3	923-4	458-3	466-5	268-3	755-4	366-3	362-5	196-3	596-4	284-3	
0.085	114-2	260-4	177-2	368-3	192-2	103-4	661-3	147-3	766-3	738-5	414-3	104-3	545-3	563-5	302-3	794-4	416-3	418-5	217-3	613-4	309-3	
0.090	283-2	425-4	291-2	537-3	297-2	114-4	694-3	143-3	796-3	710-5	428-3	890-4	495-3	609-5	330-3	788-4	425-3	473-5	232-3	628-4	330-3	
0.095	186-2	326-4	215-2	370-3	216-2	990-5	583-3	112-3	655-3	768-5	419-3	874-4	508-3	664-5	337-3	757-4	439-3	545-5	247-3	628-4	360-3	
0.100	115-2	336-4	198-2	344-3	211-2	132-4	707-3	135-3	835-3	924-5	464-3	955-4	580-3	698-5	341-3	724-4	439-3	624-5	252-3	648-4	392-3	
0.110	305-2	657-4	373-2	555-3	375-2	178-4	856-3	151-3	102-2	123-4	540-3	102-3	702-3	954-5	404-3	802-4	545-3	800-5	291-3	687-4	457-3	
0.120	504-2	974-4	506-2	692-3	510-2	233-4	117-2	166-3	122-2	157-4	683-3	112-3	826-3	122-4	509-3	893-4	641-3	975-5	349-3	712-4	510-3	
0.130	412-2	112-3	532-2	679-3	542-2	317-4	140-2	190-3	153-2	193-4	820-3	119-3	935-3	142-4	603-3	881-4	687-3	114-4	397-3	714-4	554-3	
0.140	296-2	101-3	445-2	529-3	455-2	338-4	144-2	177-3	151-2	245-4	969-3	129-3	110-2	170-4	668-3	896-4	763-3	136-4	463-3	746-4	612-3	
0.150	471-2	146-3	598-2	668-3	615-2	421-4	170-2	191-3	176-2	274-4	105-2	123-3	114-2	202-4	782-3	925-4	847-3	165-4	513-3	787-4	692-3	
0.160	383-2	141-3	542-2	564-3	703-2	506-4	236-2	229-3	237-2	325-4	126-2	132-3	127-2	249-4	859-3	102-3	179-3	200-4	581-3	840-4	786-3	
0.170	623-2	190-3	703-2	673-3	703-2	643-4	234-2	210-3	231-2	439-4	153-2	139-3	153-2	387-4	119-2	125-3	135-2	276-4	786-3	928-4	963-3	
0.180	905-3	942-4	322-2	297-3	328-2	664-4	236-2	234-2	210-3	231-2	439-4	153-2	139-3	387-4	119-2	125-3	135-2	276-4	786-3	928-4	963-3	
0.190	101-2	149-3	470-2	423-3	494-2	827-4	254-2	233-3	273-2	664-4	207-2	188-3	219-2	482-4	146-2	140-3	159-2	317-4	888-3	939-4	104-2	
0.200	661-2	280-3	898-2	716-3	880-2	152-3	488-2	387-3	480-2	954-4	281-2	241-3	299-2	560-4	165-2	143-3	176-2	360-4	955-3	945-4	113-2	
0.220	449-2	175-3	495-2	370-3	580-2	112-3	322-2	238-3	320-2	928-4	248-2	196-3	265-2	664-4	172-2	139-3	189-2	414-4	105-2	928-4	118-2	
0.240	466-2	249-3	669-2	442-3	651-2	121-3	313-2	216-3	317-2	860-4	219-2	153-3	225-2	669-4	158-2	119-3	175-2	463-4	110-2	893-4	121-2	
0.260	233-2	250-3	604-2	378-3	604-2	107-3	253-2	162-3	259-2	707-4	159-2	107-3	170-2	661-4	147-2	102-3	159-2	519-4	112-2	833-4	125-2	
0.280	731-2	338-3	777-2	441-3	759-2	156-3	341-2	204-3	350-2	999-4	227-2	131-3	224-2	766-4	168-2	103-3	172-2	551-4	116-2	786-4	123-2	
0.300	111-1	540-3	111-1	614-3	113-1	195-3	420-2	222-3	409-2	117-3	251-2	152-2	132-3	245-2	830-4	174-2	969-4	173-2	593-4	119-2	733-4	124-2
0.320	380-2	272-3	544-2	271-3	534-2	152-3	338-2	152-3	299-2	968-4	220-2	964-4	190-2	775-4	153-2	791-4	152-2	600-4	122-2	654-4	117-2	
0.340	424-2	310-3	579-2	275-3	574-2	131-3	259-2	116-3	243-2	989-4	191-2	880-4	182-2	806-4	149-2	719-4	149-2	618-4	121-2	598-4	114-2	
0.360	392-2	228-3	393-2	180-3	398-2	112-3	221-2	890-4	196-2	912-3	168-2	717-4	160-2	808-4	151-2	661-4	141-2	626-4	120-2	544-4	109-2	
0.380	262-2	251-3	428-2	178-3	415-2	142-3	230-2	100-3	235-2	107-4	177-2	728-4	168-2	819-4	149-2	587-4	135-2	621-4	121-2	488-4	102-2	
0.400	192-2	197-3	314-2	126-3	310-2	131-3	221-2	842-4	206-2	972-4	163-2	626-4	152-2	767-4	140-2	507-4	120-2	628-4	120-2	438-4	987-3	
0.420	767-3	179-3	256-2	103-3	268-2	131-3	204-2	764-4	196-2	103-3	159-2	611-4	155-2	810-4	124-2	485-4	121-2	629-4	118-2	402-4	941-3	
0.440	367-2	311-3	446-2	164-3	444-2	149-3	225-2	794-4	214-2	117-3	167-2	625-4	168-2	923-4	120-2	495-4	131-2	634-4	116-2	376-4	905-3	
0.460	153-2	296-3	411-2	143-3	404-2	200-3	282-2	971-4	273-2	142-3	194-2	688-4	194-2	987-4	129-2	496-4	134-2	669-4	117-2	356-4	913-3	
0.480	891-2	707-3	918-2	314-3	926-2	225-3	302-2	100-3	294-2	157-3	193-2	705-4	206-2	108-3	150-2	487-4	141-2	728-4	119-2	355-4	953-3	
0.500	480-2	528-3	672-2	216-3	664-2	261-3	319-2	107-3	328-2	152-3	221-2	628-4	191-2	104-3	167-2	444-4	131-2	763-4	122-2	349-4	959-3	
0.550	356-2	438-3	495-2	148-3	501-2	251-3	293-2	849-4	287-2	171-3	211-2	582-4	196-2	120-3	159-2	413-4	137-2	822-4	128-2	313-4	939-3	
0.600	570-2	630-3	641-2	179-3	659-2	289-3	317-2	820-4	302-2	185-3	214-2	531-4	194-2	124-3	162-2	365-4	130-2	903-4	132-2	289-4	945-3	
0.650	103-2	297-3	275-2	719-4	287-2	209-3	231-2	508-4	202-2	160-3	189-2	389-4	155-2	119-3	147-2	295-4	115-2	100-3	131-2	277-4	971-3	
0.700	245-2	517-3	465-2	108-3	464-2	277-3	256-2	579-4	249-2	199-3	177-2	417-4	179-2	143-3	150-2	306-4	129-2	112-3	130-2	269-4	100-2	

IIH119 71.037.0 8639 LINCOLN AVE., 6TH FLOOR, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
0.75	532-2	798-3	638-2	145-3	668-2	457-3	360-2	833-4	383-2	306-3	233-2	560-4	256-2	189-3	158-2	351-4	158-2	129-3	127-2	261-4	108-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP S45W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

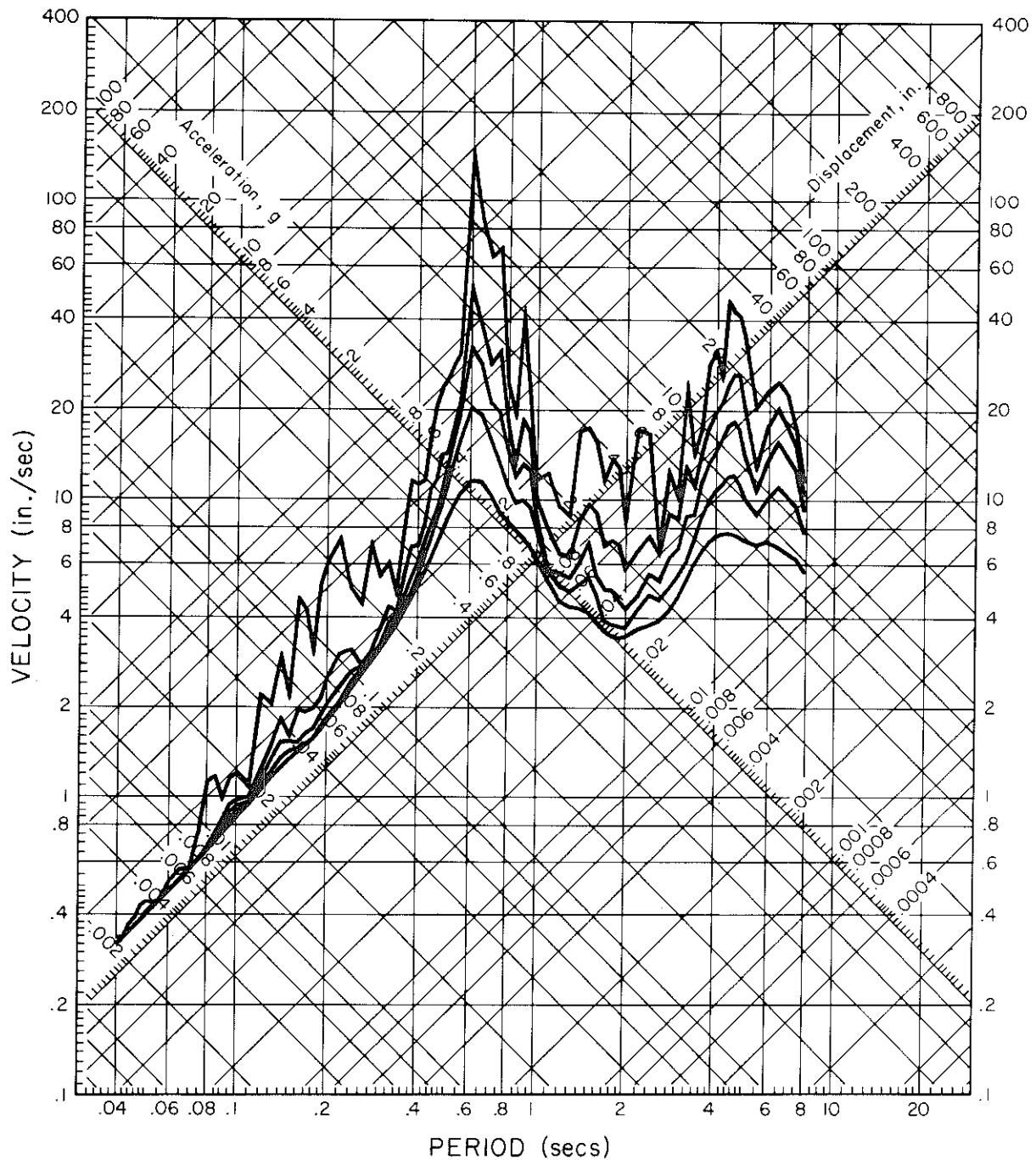


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP S45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

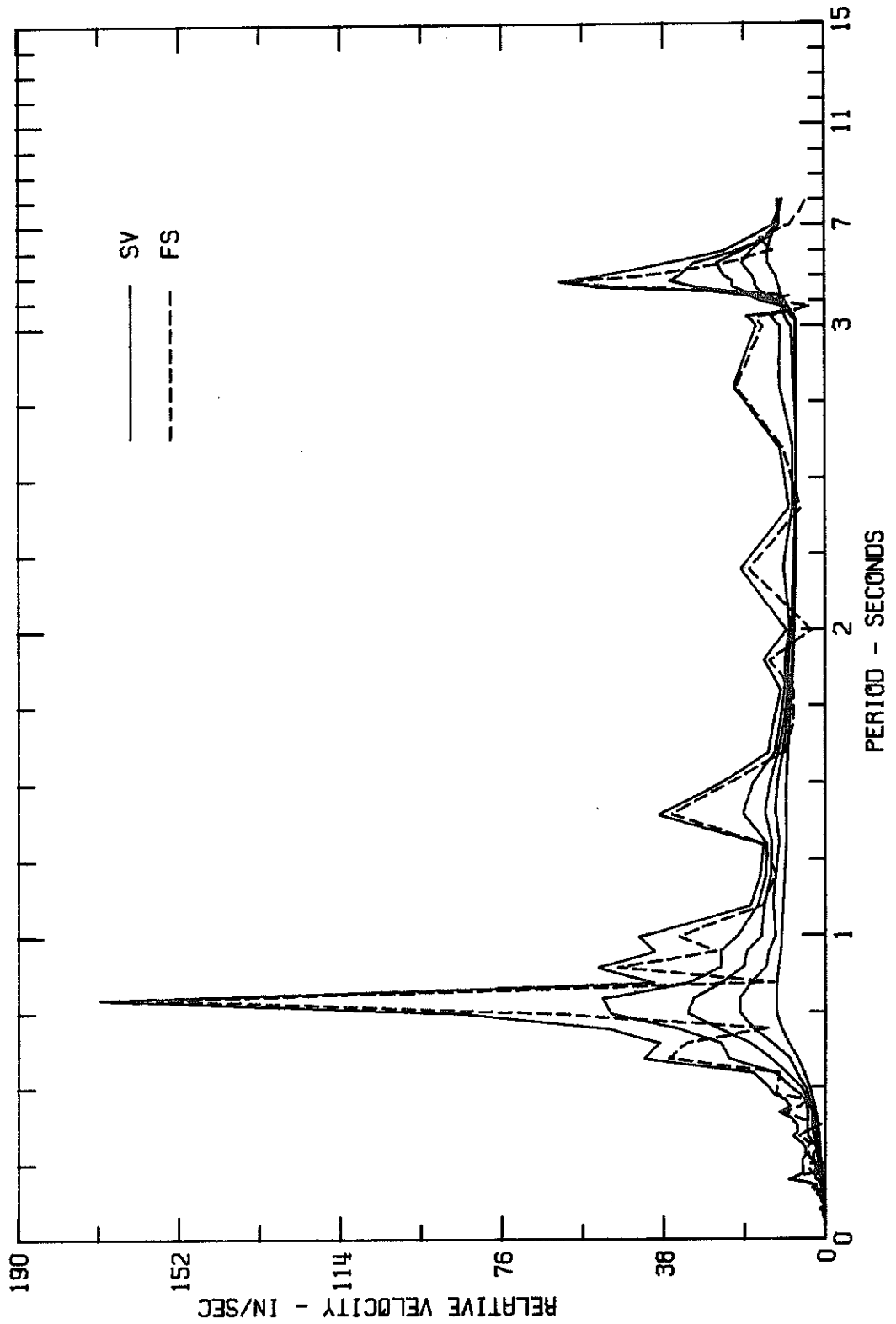


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	277-4	214-5	414-4	136-3	336-3	203-5	246-4	130-3	320-3	203-5	240-4	130-3	319-3	203-5	244-4	130-3	319-3
0.042	394-5	224-5	533-4	130-3	335-3	225-5	292-4	130-3	337-3	224-5	273-4	130-3	335-3	224-5	269-4	130-3	335-3
0.044	348-4	261-5	693-4	138-3	373-3	246-5	302-4	130-3	352-3	246-5	295-4	130-3	351-3	246-5	296-4	130-3	351-3
0.046	396-4	286-5	698-4	138-3	392-3	269-5	340-4	130-3	367-3	268-5	326-4	129-3	366-3	269-5	326-4	130-3	367-3
0.048	714-4	328-5	920-4	145-3	430-3	293-5	396-4	130-3	383-3	293-5	369-4	130-3	384-3	293-5	360-4	130-3	384-3
0.050	384-4	352-5	917-4	144-3	443-3	324-5	420-4	132-3	407-3	320-5	409-4	131-3	402-3	319-5	394-4	130-3	401-3
0.055	619-4	387-5	856-4	130-3	442-3	389-5	527-4	131-3	444-3	388-5	492-4	131-3	443-3	387-5	477-4	131-3	443-3
0.060	922-5	499-5	119-3	141-3	522-3	465-5	641-4	132-3	487-3	462-5	614-4	131-3	484-3	462-5	585-4	131-3	484-3
0.065	801-4	588-5	137-3	142-3	568-3	541-5	720-4	130-3	523-3	541-5	715-4	131-3	523-3	543-5	695-4	131-3	523-3
0.070	101-3	637-5	134-3	133-3	572-3	638-5	105-3	133-3	573-3	636-5	889-4	132-3	571-3	635-5	832-4	132-3	570-3
0.075	328-3	919-5	345-3	167-3	770-3	734-5	155-3	133-3	615-3	733-5	123-3	133-3	614-3	733-5	101-3	133-3	614-3
0.080	682-3	145-4	675-3	231-3	113-2	859-5	188-3	137-3	674-3	847-5	142-3	135-3	665-3	841-5	115-3	134-3	660-3
0.085	177-4	159-4	645-3	229-3	117-2	102-4	245-3	144-3	756-3	990-5	167-3	140-3	732-3	969-5	130-3	137-3	716-3
0.090	403-3	142-4	477-3	175-3	991-3	120-4	222-3	152-3	843-3	115-4	173-3	145-3	803-3	111-4	150-3	141-3	777-3
0.095	553-3	176-4	569-3	199-3	116-2	143-4	253-3	162-3	946-3	134-4	196-3	152-3	887-3	126-4	165-3	144-3	838-3
0.100	813-3	192-4	812-3	196-3	120-2	155-4	297-3	158-3	977-3	149-4	217-3	152-3	937-3	141-4	184-3	145-3	890-3
0.110	133-3	190-4	406-3	161-3	108-2	175-4	306-3	148-3	100-2	169-4	277-3	142-3	965-3	168-4	239-3	143-3	965-3
0.120	137-2	424-4	158-2	301-3	222-2	236-4	497-3	167-3	123-2	217-4	381-3	155-3	114-2	209-4	311-3	148-3	109-2
0.130	872-3	428-4	131-2	259-3	206-2	306-4	638-3	185-3	148-2	278-4	487-3	168-3	134-2	253-4	380-3	154-3	122-2
0.140	118-2	668-4	235-2	348-3	299-2	413-4	946-3	215-3	185-2	344-4	624-3	179-3	154-2	304-4	469-3	159-3	136-2
0.150	149-2	531-4	183-2	241-3	222-2	385-4	108-2	175-3	161-2	368-4	769-3	167-3	154-2	342-4	583-3	156-3	143-2
0.160	270-2	119-3	377-2	476-3	468-2	503-4	131-2	201-3	197-2	392-4	866-3	156-3	154-2	372-4	679-3	149-3	146-2
0.170	229-2	116-3	366-2	411-3	429-2	526-4	116-2	186-3	194-2	446-4	913-3	157-3	165-2	409-4	741-3	145-3	151-2
0.180	174-2	903-4	230-2	285-3	315-2	574-4	156-2	180-3	200-2	491-4	102-2	154-3	171-2	453-4	806-3	143-3	158-2
0.190	485-2	160-3	501-2	454-3	530-2	651-4	149-2	185-3	215-2	571-4	119-2	161-3	188-2	522-4	971-3	149-3	172-2
0.200	495-2	199-3	553-2	510-3	626-2	808-4	185-2	207-3	254-2	661-4	137-2	169-3	207-2	595-4	110-2	151-3	186-2
0.210	214-2	192-3	356-2	341-3	504-2	120-3	221-2	213-3	315-2	101-3	171-2	180-3	266-2	940-4	144-2	166-3	246-2
0.220	293-2	186-3	316-2	282-3	451-2	115-3	182-2	175-3	280-2	114-3	177-2	174-3	276-2	112-3	158-2	171-3	271-2
0.230	564-2	319-3	614-2	416-3	717-2	138-3	195-2	180-3	311-2	134-3	182-2	174-3	300-2	132-3	167-2	173-3	297-2
0.240	339-2	267-3	367-2	303-3	560-2	177-3	226-2	202-3	372-2	156-3	202-2	177-3	327-2	153-3	181-2	175-3	321-2
0.250	296-2	316-3	506-2	315-3	620-2	225-3	256-2	225-3	442-2	197-3	219-2	197-3	388-2	182-3	188-2	183-3	358-2
0.260	302-2	268-3	395-2	237-3	495-2	230-3	283-2	203-3	425-2	224-3	253-2	198-3	415-2	216-3	222-2	193-3	399-2
0.270	186-2	470-3	633-2	371-3	820-2	326-3	416-2	257-3	569-2	274-3	330-2	216-3	479-2	256-3	280-2	203-3	447-2
0.280	635-2	710-3	102-1	503-3	117-1	426-3	522-2	302-3	704-2	337-3	391-2	239-3	557-2	299-3	327-2	213-3	494-2
0.290	660-2	728-3	102-1	465-3	114-1	451-3	538-2	288-3	709-2	398-3	454-2	255-3	626-2	358-3	387-2	232-3	563-2
0.300	573-2	787-3	997-2	456-3	117-1	564-3	709-2	327-3	844-2	493-3	531-2	288-3	738-2	436-3	460-2	255-3	653-2
0.310	124-1	114-2	144-1	602-3	162-1	773-3	961-2	408-3	110-1	586-3	639-2	312-3	838-2	527-3	555-2	280-3	752-2
0.320	160-1	154-2	188-1	746-3	210-1	868-3	103-1	419-3	118-1	690-3	708-2	334-3	943-2	632-3	651-2	309-3	863-2
0.330	115-1	185-2	230-1	822-3	242-1	109-2	133-1	487-3	143-1	827-3	893-2	369-3	108-1	754-3	767-2	338-3	987-2
0.340	201-1	206-2	255-1	844-3	259-1	115-2	132-1	474-3	145-1	103-2	107-1	421-3	129-1	899-3	922-2	373-3	113-1
0.350	622-2	277-2	296-1	936-3	316-1	190-2	198-1	645-3	217-1	170-2	176-1	571-2	194-1	139-2	142-1	477-3	159-1
0.360	135	140-1	146	400-2	147	498-2	498-2	141-2	521-1	313-2	319-1	891-3	328-1	196-2	198-1	569-3	206-1
0.370	695-1	905-2	876-1	219-2	875-1	399-2	390-1	966-3	386-1	296-2	293-1	718-3	286-1	202-2	200-1	501-3	196-1
0.380	542-1	738-2	670-1	154-2	662-1	323-2	291-1	676-3	290-1	237-2	228-1	498-3	213-1	180-2	174-1	384-3	161-1
0.390																	
0.400																	
0.410																	
0.420																	
0.430																	
0.440																	
0.450																	
0.460																	
0.470																	
0.480																	
0.490																	
0.500																	
0.510																	
0.520																	
0.530																	
0.540																	
0.550																	
0.560																	
0.570																	
0.580																	
0.590																	
0.600																	
0.610																	
0.620																	
0.630																	
0.640																	
0.650																	
0.660																	
0.670																	
0.680																	
0.690																	
0.700																	

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP S45E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

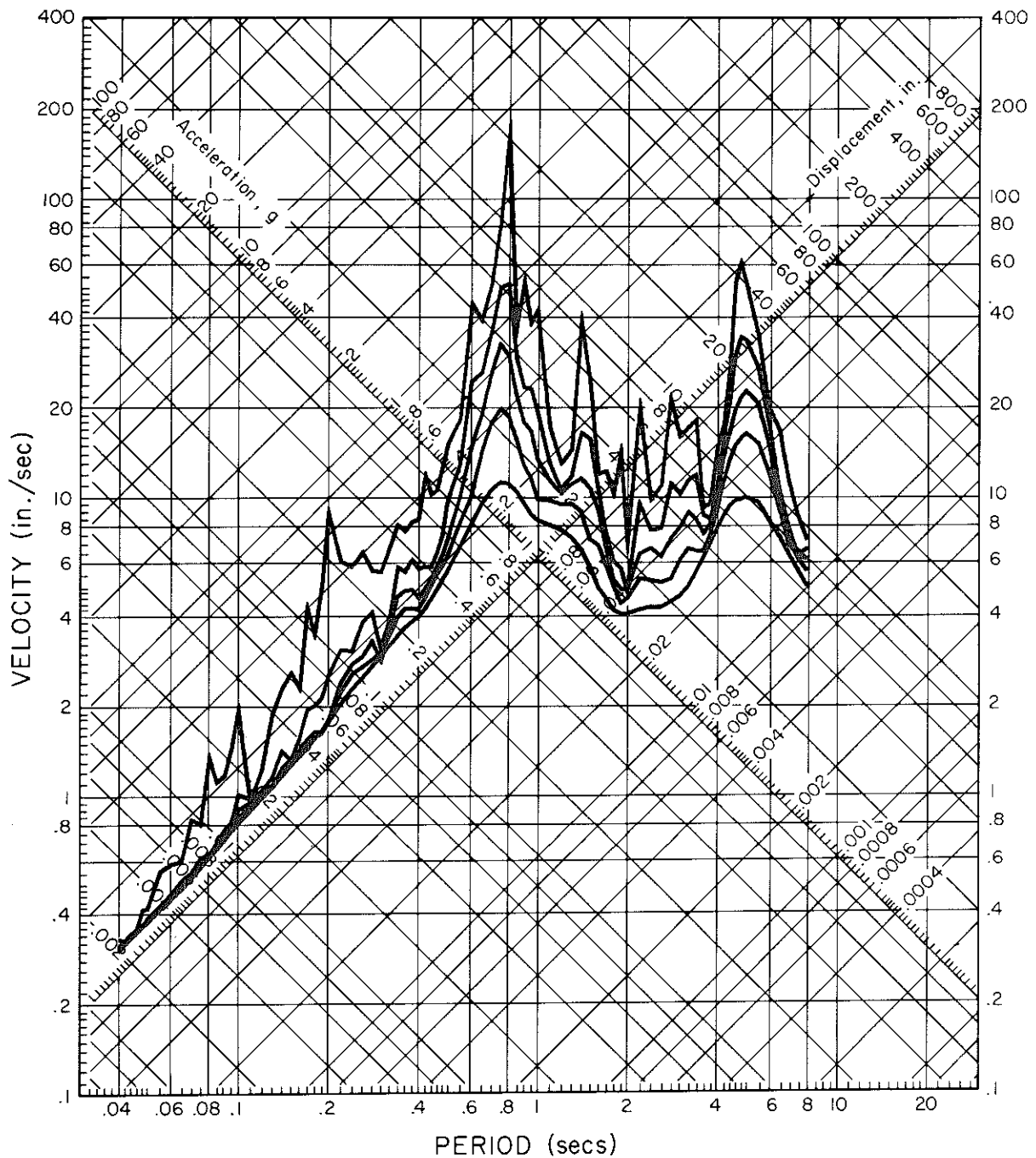


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIH120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP S45E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP S45E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	247-4	209-5	545-4	133-3	329-3	198-5	249-4	126-3	311-3	196-5	237-4	125-3	308-3	194-5	224-4	124-3	305-3
0.042	436-5	216-5	433-4	125-3	324-3	218-5	270-4	126-3	326-3	215-5	257-4	125-3	324-3	214-5	245-4	124-3	321-3
0.044	324-4	236-5	459-4	124-3	337-3	240-5	312-4	126-3	343-3	237-5	278-4	125-3	338-3	234-5	269-4	124-3	335-3
0.046	266-4	259-5	702-4	125-3	353-3	260-5	339-4	125-3	355-3	258-5	312-4	124-3	352-3	256-5	296-4	123-3	349-3
0.048	634-4	316-5	101-3	140-3	414-3	276-5	406-4	122-3	362-3	279-5	353-4	124-3	365-3	278-5	332-4	123-3	364-3
0.050	286-4	330-5	764-4	135-3	415-3	307-5	434-4	125-3	386-3	302-5	397-4	123-3	380-3	300-5	366-4	123-3	378-3
0.055	182-3	486-5	196-3	164-3	556-3	370-5	676-4	125-3	423-3	364-5	576-4	123-3	416-3	363-5	475-4	122-3	415-3
0.060	140-3	558-5	200-3	158-3	585-3	445-5	862-4	126-3	466-3	435-5	653-4	123-3	455-3	431-5	566-4	122-3	451-3
0.065	164-3	619-5	208-3	149-3	598-3	533-5	910-4	129-3	515-3	513-5	767-4	124-3	496-3	503-5	692-4	122-3	486-3
0.070	253-3	931-5	387-3	194-3	836-3	610-5	106-3	127-3	547-3	599-5	873-4	125-3	538-3	590-5	806-4	123-3	529-3
0.075	278-3	953-5	380-3	173-3	798-3	733-5	121-3	133-3	614-3	703-5	988-4	128-3	589-3	692-5	923-4	125-3	580-3
0.080	785-3	172-4	881-3	275-3	135-2	757-5	160-3	127-3	626-3	807-5	110-3	128-3	634-3	800-5	104-3	128-3	628-3
0.085	441-3	150-4	618-3	212-3	111-2	934-5	191-3	132-3	690-3	926-5	141-3	131-3	685-3	916-5	120-3	130-3	677-3
0.090	479-3	167-4	681-3	211-3	117-2	109-4	272-3	138-3	766-3	107-4	178-3	135-3	747-3	105-4	139-3	132-3	733-3
0.095	789-3	221-4	915-3	251-3	146-2	123-4	304-3	139-3	816-3	123-4	200-3	139-3	815-3	119-4	158-3	135-3	791-3
0.100	126-2	312-4	134-2	319-3	196-2	161-4	338-3	165-3	101-2	143-4	223-3	146-3	902-3	135-4	179-3	137-3	848-3
0.110	326-3	168-4	575-3	142-3	962-3	171-4	372-3	144-3	979-3	166-4	273-3	141-3	952-3	162-4	218-3	137-3	929-3
0.120	500-3	234-4	695-3	166-3	122-2	199-4	323-3	141-3	104-2	195-4	277-3	138-3	102-2	192-4	254-3	136-3	100-2
0.130	107-2	389-4	124-2	235-3	188-2	239-4	562-3	144-3	115-2	222-4	376-3	134-3	107-2	224-4	294-3	136-3	108-2
0.140	604-3	517-4	136-2	270-3	232-2	317-4	585-3	165-3	142-2	276-4	401-3	144-3	124-2	265-4	331-3	139-3	119-2
0.150	204-2	622-4	212-2	282-3	260-2	313-4	843-3	142-3	131-2	316-4	544-3	144-3	132-2	311-4	423-3	141-3	130-2
0.160	653-3	584-4	157-2	233-3	229-2	400-4	885-3	159-3	157-2	358-4	630-3	143-3	140-2	354-4	510-3	142-3	139-2
0.170	245-2	117-3	330-2	414-3	433-2	529-4	119-2	187-3	195-2	419-4	710-3	148-3	154-2	403-4	597-3	143-3	149-2
0.180	235-2	100-3	254-2	316-3	349-2	575-4	114-2	181-3	200-2	470-4	880-3	149-3	164-2	450-4	747-3	142-3	157-2
0.190	480-2	155-3	485-2	439-3	512-2	645-4	155-2	183-3	213-2	499-4	109-2	142-3	165-2	490-4	909-3	139-3	162-2
0.200	870-2	287-3	837-2	736-3	904-2	809-4	228-2	208-3	254-2	573-4	146-2	146-3	180-2	571-4	110-2	145-3	179-2
0.220	322-2	215-3	547-2	455-3	615-2	108-3	273-2	229-3	310-2	848-4	202-2	179-3	242-2	786-4	137-2	174-3	224-2
0.240	407-2	225-3	557-2	400-3	590-2	117-3	243-2	208-3	307-2	106-3	192-2	188-3	278-2	983-4	142-2	174-3	257-2
0.260	305-2	274-3	568-2	414-3	662-2	159-3	287-2	242-3	386-2	121-3	187-2	185-3	294-2	112-3	157-2	172-3	271-2
0.280	410-2	255-3	480-2	333-3	573-2	185-3	318-2	243-3	416-2	148-3	221-2	194-3	332-2	127-3	168-2	167-3	286-2
0.300	445-2	271-3	491-2	308-3	568-2	150-3	226-2	170-3	314-2	135-3	188-2	155-3	284-2	145-3	174-2	166-3	305-2
0.320	351-2	352-3	563-2	351-3	691-2	200-3	268-2	199-3	393-2	185-3	223-2	185-3	364-2	177-3	192-2	178-3	348-2
0.340	636-2	443-3	761-2	392-3	819-2	320-3	428-2	282-3	591-2	254-3	285-2	225-3	470-2	215-3	211-2	193-3	399-2
0.360	447-2	445-3	679-2	351-3	778-2	326-3	434-2	258-3	569-2	281-3	305-2	222-3	490-2	245-3	239-2	194-3	427-2
0.380	117-2	507-3	699-2	359-3	838-2	378-3	451-2	267-3	625-2	298-3	332-2	212-3	494-2	259-3	252-2	186-3	428-2
0.400	614-2	545-3	802-2	348-3	856-2	369-3	426-2	236-3	580-2	295-3	326-2	188-3	463-2	269-3	257-2	173-3	423-2
0.420	991-2	804-3	111-1	466-3	120-1	397-3	422-2	230-3	594-2	331-3	319-2	192-3	496-2	312-3	292-2	181-3	466-2
0.440	611-2	725-3	851-2	383-3	103-1	413-3	461-2	218-3	590-2	380-3	380-2	201-3	543-2	357-3	339-2	191-3	510-2
0.460	455-2	780-3	953-2	377-3	106-1	485-3	497-2	234-3	662-2	437-3	442-2	212-3	597-2	407-3	390-2	190-3	556-2
0.480	119-1	983-3	123-1	436-3	128-1	580-3	626-2	257-3	759-2	494-3	498-2	220-3	647-2	456-3	434-2	204-3	597-2
0.500	114-1	121-2	133-1	497-3	152-1	785-3	831-2	321-3	987-2	583-3	581-2	240-3	733-2	513-3	485-2	211-3	645-2
0.550	108-1	162-2	171-1	549-3	185-1	115-2	119-1	390-3	131-1	891-3	934-2	303-3	101-1	731-3	693-2	250-3	835-2
0.600	369-1	432-2	428-1	122-2	452-1	237-2	228-1	674-3	248-1	142-2	131-1	407-3	149-1	973-3	859-2	280-3	101-1
0.650	328-1	409-2	390-1	990-3	395-1	274-2	248-1	664-3	265-1	200-2	179-1	488-3	193-1	149-2	129-1	368-3	144-1
0.700	134-1	591-2	509-1	123-2	530-1	408-2	347-1	853-3	366-1	296-2	253-1	621-3	266-1	202-2	172-1	431-3	181-1

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

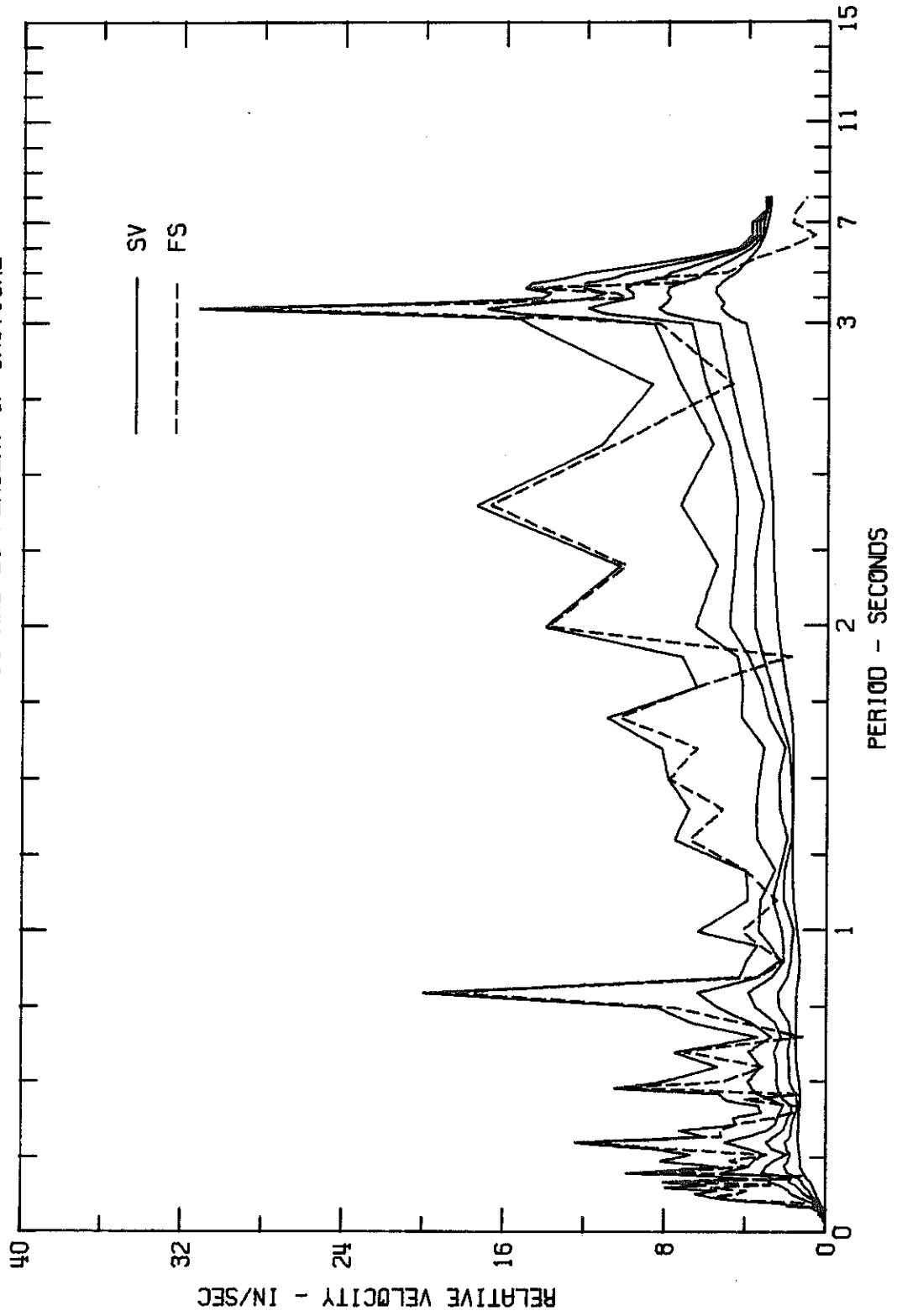
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	634-1	102-1	845-1	185-2	856-1	612-2	505-1	111-2	512-1	393-2	325-1	721-3	330-1	239-2	203-1	444-3	200-1
0.80	157 0	217-1	170 0	347-2	170 0	670-2	525-1	107-2	526-1	383-2	311-1	615-3	301-1	239-2	201-1	392-3	188-1
0.85	120-1	504-2	402-1	713-3	372-1	399-2	322-1	566-3	295-1	299-2	244-1	426-3	221-1	212-2	176-1	308-3	157-1
0.90	488-1	767-2	536-1	969-3	536-1	338-2	246-1	427-3	236-1	257-2	192-1	326-3	179-1	185-2	140-1	239-3	129-1
0.95	257-1	586-2	401-1	664-3	387-1	352-2	247-1	399-3	233-1	254-2	184-1	289-3	168-1	176-2	133-1	205-3	116-1
1.00	345-1	684-2	439-1	699-3	429-1	307-2	208-1	315-3	233-1	215-2	151-1	221-3	135-1	158-2	118-1	165-3	996-2
1.10	147-1	302-2	175-1	256-3	173-1	229-2	158-1	194-3	131-1	199-2	142-1	170-3	114-1	172-2	124-1	150-3	984-2
1.20	116-1	251-2	152-1	178-3	131-1	204-2	138-1	145-3	107-1	198-2	129-1	141-3	103-1	182-2	116-1	134-3	961-2
1.30	146-1	302-2	146-1	183-3	146-1	247-2	136-1	149-3	119-1	231-2	125-1	141-3	111-1	198-2	109-1	124-3	961-2
1.40	362-1	888-2	394-1	463-3	398-1	372-2	194-1	194-3	167-1	260-2	142-1	137-3	117-1	201-2	117-1	109-3	904-2
1.50	225-1	593-2	246-1	269-3	248-1	378-2	170-1	171-3	158-1	257-2	130-1	117-3	107-1	174-2	112-1	825-4	730-2
1.60	969-2	308-2	133-1	123-3	121-1	272-2	117-1	109-3	107-1	231-2	110-1	931-4	908-2	177-2	998-2	731-4	598-2
1.70	743-2	333-2	120-1	118-3	123-1	208-2	105-1	739-4	771-2	186-2	962-2	665-4	690-2	161-2	907-2	592-4	597-2
1.80	742-2	296-2	105-1	934-4	103-1	176-2	963-2	557-2	466-4	152-2	878-2	490-4	531-2	144-2	827-2	475-4	505-2
1.90	132-1	436-2	145-1	123-3	144-1	176-2	932-2	501-4	584-2	150-2	855-2	429-4	497-2	134-2	771-2	395-4	445-2
2.00	341-2	226-2	920-2	579-4	711-2	157-2	849-2	402-4	493-2	157-2	795-2	404-4	493-2	146-2	752-2	388-4	461-2
2.20	179-1	712-2	200-1	150-3	203-1	338-2	994-2	715-4	966-2	229-2	746-2	490-4	656-2	189-2	722-2	414-4	540-2
2.40	591-2	378-2	858-2	671-4	990-2	300-2	773-2	499-4	796-2	265-2	672-2	403-4	641-2	217-2	675-2	344-4	525-2
2.60	101-1	458-2	110-1	127-3	218-1	501-2	109-1	655-4	112-1	329-2	741-2	432-4	740-2	240-2	707-2	316-4	538-2
2.80	210-1	973-2	215-1	876-4	161-1	495-2	106-1	563-4	103-1	385-2	813-2	440-4	807-2	299-2	716-2	344-4	626-2
3.00	146-1	770-2	163-1	173-1	882-4	173-1	588-2	119-1	587-4	115-1	460-2	907-2	462-4	904-2	348-2	701-2	355-4
3.20	157-1	883-2	170-1	882-4	173-1	588-2	119-1	587-4	115-1	460-2	907-2	462-4	904-2	348-2	701-2	355-4	684-2
3.40	156-1	993-2	185-1	878-4	183-1	650-2	128-1	576-4	120-1	462-2	962-2	411-4	854-2	362-2	804-2	328-4	669-2
3.60	750-2	536-2	103-1	423-4	936-2	505-2	100-1	399-4	882-2	437-2	957-2	346-4	764-2	384-2	903-2	314-4	670-2
3.80	368-2	580-2	954-2	411-4	960-2	517-2	932-2	367-4	856-2	498-2	100-1	354-4	823-2	461-2	100-1	337-4	762-2
4.00	123-1	939-2	153-1	600-4	147-1	698-2	118-1	446-4	109-1	659-2	120-1	423-4	103-1	584-2	115-1	385-4	918-2
4.20	837-2	119-1	177-1	692-4	178-1	106-1	169-1	617-4	159-1	906-2	156-1	528-4	135-1	756-2	135-1	452-4	113-1
4.40	236-1	187-1	260-1	991-4	268-1	147-1	229-1	777-4	209-1	116-1	194-1	621-4	166-1	945-2	154-1	516-4	134-1
4.60	502-1	392-1	532-1	189-3	536-1	224-1	309-1	108-3	307-1	146-1	218-1	748-4	219-1	122-1	167-1	563-4	160-1
4.80	623-1	476-1	623-1	211-3	623-1	266-1	365-1	118-3	348-1	167-1	218-1	748-4	219-1	122-1	167-1	563-4	160-1
5.00	424-1	421-1	537-1	172-3	529-1	270-1	343-1	110-3	339-1	183-1	237-1	753-4	230-1	132-1	172-1	547-4	166-1
5.50	232-1	312-1	372-1	105-3	356-1	241-1	306-1	817-4	276-1	182-1	254-1	621-4	208-1	134-1	197-1	472-4	153-1
6.00	122-1	191-1	236-1	542-4	200-1	168-1	208-1	480-4	107-1	144-1	195-1	415-4	151-1	115-1	173-1	340-4	121-1
6.50	153-1	174-1	175-1	422-4	168-1	110-1	133-1	268-4	176-1	101-1	132-1	249-4	980-2	949-2	137-1	243-4	917-2
7.00	851-2	126-1	121-1	264-4	113-1	884-2	109-1	184-4	793-2	773-2	111-1	164-4	694-2	800-2	117-1	179-4	718-2
7.50	604-2	104-1	112-1	189-4	873-2	773-2	109-1	140-4	648-2	767-2	108-1	143-4	643-2	751-2	108-1	148-4	629-2
8.00	443-2	931-2	110-1	148-4	731-2	865-2	104-1	138-4	675-2	798-2	101-1	130-4	627-2	731-2	100-1	129-4	574-2

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

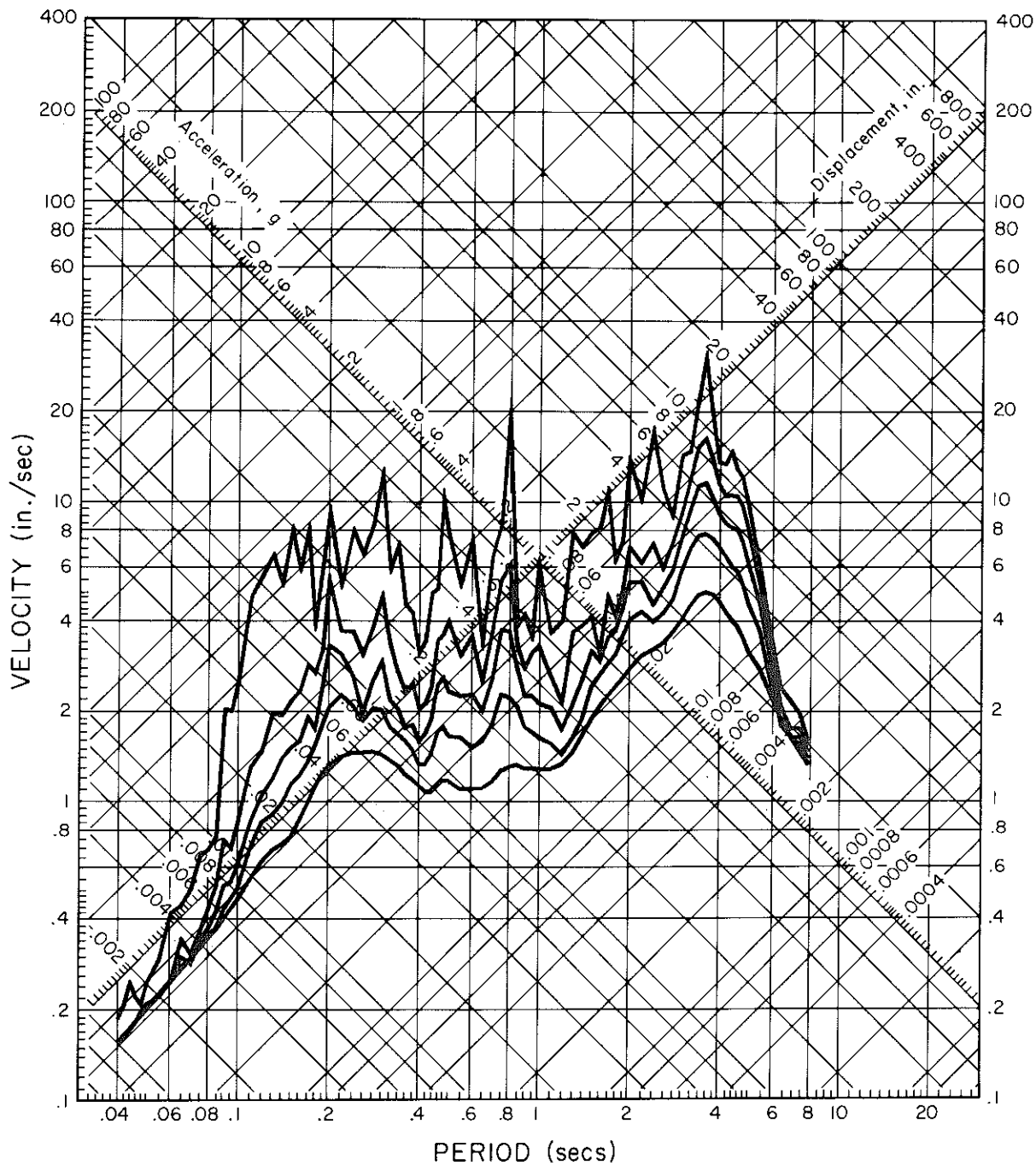


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIH120 71.041.0 8639 LINCOLN AVE., 12TH FLOOR, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

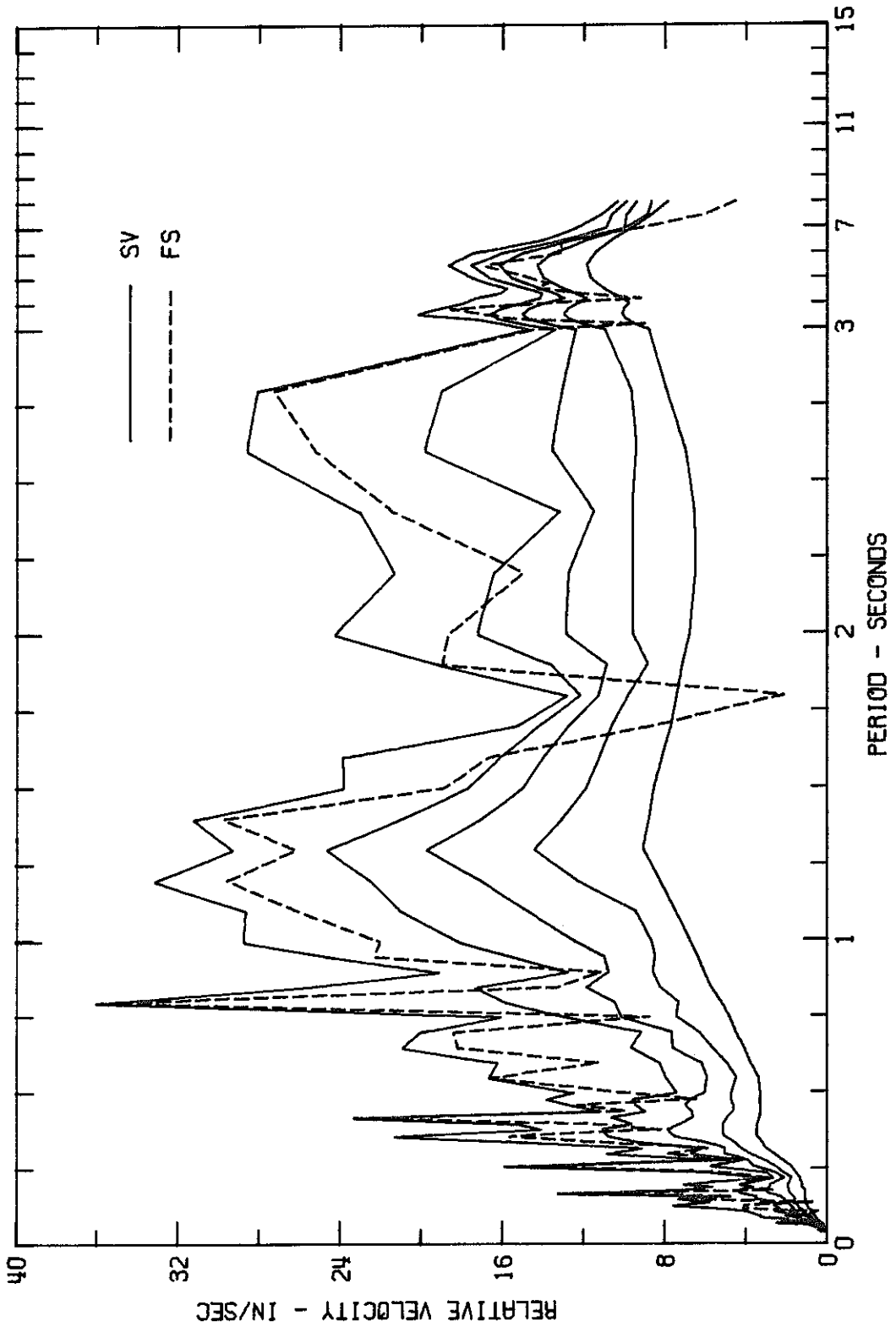
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	635-4	119-5	102-3	763-4	187-3	995-6	509-4	636-4	156-3	999-6	418-4	638-4	156-3	100-5	372-4	642-4	157-3
0.042	486-4	138-5	919-4	805-4	207-3	108-5	546-4	632-4	163-3	109-5	487-4	638-4	164-3	110-5	449-4	641-4	165-3
0.044	115-3	173-5	127-3	914-4	247-3	120-5	579-4	637-4	172-3	121-5	518-4	641-4	173-3	121-5	479-4	645-4	174-3
0.046	300-4	162-5	978-4	783-4	221-3	133-5	626-4	645-4	182-3	134-5	546-4	649-4	183-3	134-5	506-4	651-4	183-3
0.048	801-4	159-5	118-3	708-4	208-3	152-5	671-4	677-4	199-3	149-5	572-4	663-4	195-3	148-5	540-4	659-4	193-3
0.050	123-3	196-5	140-3	803-4	246-3	166-5	714-4	681-4	209-3	164-5	628-4	672-4	206-3	162-5	602-4	665-4	203-3
0.055	122-3	258-5	202-3	874-4	295-3	193-5	867-4	654-4	221-3	197-5	797-4	668-4	225-3	197-5	763-4	672-4	226-3
0.060	179-3	401-5	319-3	114-3	420-3	238-5	119-3	676-4	249-3	241-5	959-4	685-4	253-3	240-5	921-4	687-4	252-3
0.065	291-3	459-5	332-3	111-3	444-3	356-5	164-3	861-4	344-3	310-5	127-3	750-4	299-3	290-5	111-3	702-4	280-3
0.070	175-3	564-5	376-3	117-3	506-3	340-5	200-3	709-4	305-3	317-5	155-3	663-4	284-3	329-5	134-3	691-4	295-3
0.075	296-4	785-5	504-3	142-3	657-3	436-5	237-3	794-4	365-3	403-5	200-3	733-4	338-3	388-5	164-3	712-4	325-3
0.080	293-3	880-5	579-3	140-3	691-3	558-5	284-3	892-4	438-3	478-5	230-3	764-4	375-3	451-5	197-3	721-4	354-3
0.085	156-3	102-4	604-3	145-3	759-3	705-5	386-3	996-4	521-3	575-5	280-3	807-4	425-3	508-5	226-3	718-4	374-3
0.090	135-2	292-4	195-2	369-3	204-2	106-4	577-3	135-3	743-3	748-5	465-3	920-4	536-3	620-5	282-3	792-4	433-3
0.095	183-2	305-4	199-2	346-3	202-2	105-4	624-3	120-3	698-3	810-5	465-3	921-4	536-3	620-5	282-3	792-4	433-3
0.100	110-2	407-4	241-2	416-3	253-2	137-4	733-3	141-3	861-3	980-5	531-3	100-3	615-3	813-5	395-3	825-4	510-3
0.110	461-2	860-4	485-2	727-3	491-2	229-4	111-2	194-3	131-2	150-4	677-3	125-3	859-3	123-4	508-3	105-3	703-3
0.120	560-2	110-3	573-2	443-3	578-2	282-4	138-2	201-3	147-2	200-4	877-3	142-3	105-2	163-4	653-3	117-3	858-3
0.130	437-2	139-3	652-2	844-3	674-2	412-4	175-2	250-3	199-2	247-4	109-2	151-3	119-2	186-4	794-3	113-3	903-3
0.140	399-2	120-3	539-2	630-3	541-2	435-4	184-2	226-3	195-2	313-4	125-2	165-3	140-2	221-4	863-3	116-3	995-3
0.150	571-2	196-3	802-2	892-3	822-2	524-4	211-2	240-3	219-2	364-4	142-2	164-3	152-2	274-4	103-2	124-3	115-2
0.160	275-2	154-3	592-2	616-3	606-2	601-4	233-2	241-3	236-2	406-4	153-2	161-3	159-2	313-4	114-2	125-3	123-2
0.170	782-2	221-3	812-2	782-3	617-2	782-4	287-2	278-3	289-2	521-4	185-2	183-3	192-2	366-4	123-2	130-3	135-2
0.180	208-2	114-3	387-2	361-3	400-2	774-4	275-2	245-3	270-2	501-4	177-2	158-3	174-2	443-4	135-2	142-3	154-2
0.190	122-2	185-3	587-2	526-3	614-2	981-4	290-2	278-3	324-2	738-4	228-2	209-3	244-2	550-4	165-2	159-3	182-2
0.200	829-2	301-3	995-2	769-3	945-2	177-3	528-2	453-3	558-2	106-3	323-2	278-3	335-2	663-4	194-2	172-3	208-2
0.220	393-2	168-3	532-2	397-3	537-2	131-3	382-2	277-3	374-2	110-3	296-2	235-3	314-2	800-4	209-2	169-3	228-2
0.240	479-2	311-3	825-2	553-3	816-2	142-3	363-2	250-3	372-2	100-3	257-2	181-3	264-2	802-4	191-2	142-3	210-2
0.260	292-2	280-3	670-2	424-3	677-2	129-3	301-2	196-3	312-2	826-4	194-2	125-3	258-2	922-4	198-2	121-3	186-2
0.280	804-2	382-3	845-2	499-3	858-2	173-3	386-2	228-3	389-2	115-3	270-2	153-3	258-2	922-4	198-2	121-3	186-2
0.300	117-1	602-3	124-1	685-3	126-1	235-3	507-2	269-3	494-2	142-3	296-2	161-3	297-2	976-4	206-2	114-3	204-2
0.320	522-2	307-3	598-2	307-3	603-2	172-3	388-2	173-3	338-2	111-3	258-2	112-3	219-2	911-4	178-2	919-4	179-2
0.340	529-2	394-3	728-2	348-3	728-2	147-3	288-2	131-3	272-2	110-3	214-2	995-4	204-2	910-4	172-2	836-4	168-2
0.360	447-2	261-3	449-2	206-3	457-2	133-3	253-2	105-3	232-2	101-3	200-2	806-4	177-2	921-4	168-2	740-4	160-2
0.380	264-2	259-3	462-2	184-3	429-2	152-3	242-2	107-3	251-2	109-3	188-2	793-4	181-2	908-4	162-2	650-4	150-2
0.400	153-2	201-3	322-2	128-3	316-2	131-3	229-2	844-4	207-2	102-3	175-2	664-4	160-2	851-4	151-2	564-4	133-2
0.420	135-2	232-3	337-2	134-3	347-2	143-3	214-2	836-4	214-2	114-3	171-2	668-4	170-2	894-4	136-2	539-4	133-2
0.440	403-2	353-3	496-2	187-3	505-2	171-3	267-2	905-4	245-2	133-3	210-2	706-4	190-2	102-3	151-2	557-4	146-2
0.460	122-2	381-3	534-2	184-3	521-2	256-3	347-2	124-3	349-2	181-3	234-2	879-4	248-2	126-3	150-2	616-4	172-2
0.480	103-1	809-3	105-1	359-3	105-1	278-3	370-2	124-3	364-2	201-3	243-2	892-4	263-2	137-3	171-2	626-4	179-2
0.500	511-2	644-3	816-2	263-3	809-2	324-3	390-2	132-3	407-2	187-3	248-2	774-4	236-2	132-3	186-2	560-4	166-2
0.550	312-2	471-3	537-2	159-3	538-2	272-3	325-2	919-4	311-2	199-3	247-2	673-4	227-2	144-3	186-2	494-4	165-2
0.600	705-2	727-3	753-2	206-3	761-2	345-3	387-2	979-4	361-2	220-3	261-2	627-4	230-2	145-3	193-2	424-4	152-2
0.650	116-2	358-3	336-2	867-4	346-2	265-3	273-2	644-4	256-2	209-3	226-2	511-4	202-2	165-3	177-2	409-4	160-2
0.700	423-2	746-3	672-2	155-3	670-2	419-3	378-2	876-4	376-2	289-3	258-2	608-4	260-2	203-3	191-2	433-4	182-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT							
0.75	763-2	102-2	842-2	185-3	856-2	671-3	540-2	122-3	562-2	454-3	355-2	831-4	380-2	276-3	239-2	511-4	231-2	152-3	150-2	300-4	127-2
0.80	190-1	256-2	200-1	410-3	201-1	797-3	642-2	127-3	626-2	475-3	389-2	764-4	373-2	286-3	241-2	467-4	224-2	167-3	150-2	290-4	131-2
0.85	333-2	528-3	431-2	748-4	391-2	453-3	343-2	642-4	335-2	380-3	268-2	540-4	280-2	283-3	195-2	414-4	209-2	181-3	139-2	281-4	133-2
0.90	212-2	610-3	396-2	771-4	426-2	404-3	235-2	510-4	282-2	326-3	212-2	413-4	228-2	256-3	179-2	329-4	179-2	186-3	132-2	268-4	130-2
0.95	329-2	544-3	344-2	616-4	359-2	481-3	278-2	546-4	318-2	345-3	218-2	392-4	228-2	261-3	173-2	300-4	172-2	196-3	140-2	259-4	130-2
1.00	421-2	100-2	643-2	102-3	631-2	534-3	337-2	547-4	335-2	343-3	224-2	353-4	215-2	263-3	164-2	282-4	165-2	205-3	151-2	249-4	129-2
1.10	248-2	648-3	393-2	548-4	370-2	465-3	331-2	394-4	266-2	363-3	271-2	310-4	207-2	276-3	216-2	247-4	158-2	227-3	170-2	217-4	129-2
1.20	406-2	777-3	407-2	552-4	407-2	414-3	257-2	294-4	216-2	335-3	234-2	239-4	175-2	276-3	208-2	199-4	144-2	257-3	175-2	187-4	134-2
1.30	683-2	165-2	757-2	100-3	799-2	775-3	350-2	469-4	375-2	443-3	197-2	269-4	214-2	341-3	175-2	210-4	165-2	304-3	172-2	189-4	147-2
1.40	518-2	160-2	686-2	836-4	719-2	878-3	354-2	458-4	394-2	581-3	236-2	305-4	261-2	427-3	171-2	225-4	192-2	374-3	170-2	202-4	168-2
1.50	786-2	190-2	793-2	865-4	797-2	100-2	338-2	457-4	421-2	771-3	241-2	351-4	323-2	588-3	183-2	270-4	246-2	456-3	171-2	216-4	191-2
1.60	646-2	212-2	827-2	848-4	834-2	813-3	313-2	325-4	319-2	758-3	209-2	304-4	297-2	687-3	192-2	277-4	269-2	537-3	171-2	223-4	211-2
1.70	103-1	297-2	109-1	105-3	109-1	133-2	429-2	472-4	493-2	970-3	294-2	344-4	358-2	794-3	237-2	283-4	293-2	620-3	180-2	232-4	229-2
1.80	650-2	186-2	651-2	588-4	650-2	156-2	454-2	443-4	517-2	135-2	398-2	385-4	449-2	110-2	327-2	316-4	364-2	789-3	233-2	232-4	261-2
2.00	138-1	448-2	140-1	114-3	140-1	228-2	656-2	586-4	719-2	175-2	490-2	451-4	552-2	130-2	364-2	339-4	410-2	895-3	252-2	241-4	281-2
2.20	100-1	363-2	103-1	768-4	103-1	222-2	548-2	469-4	634-2	192-2	461-2	409-4	463-2	154-2	323-2	280-4	405-2	124-2	279-2	236-4	326-2
2.40	167-1	670-2	174-1	119-3	175-1	182-2	733-2	502-4	740-2	177-2	450-2	315-4	463-2	154-2	323-2	288-4	437-2	109-2	273-2	245-4	312-2
2.60	105-1	464-2	112-1	703-4	112-1	251-2	574-2	381-4	608-2	218-2	496-2	333-4	529-2	179-2	416-2	275-4	433-2	142-2	306-2	232-4	344-2
2.80	477-2	407-2	875-2	531-4	914-2	336-2	738-2	439-4	755-2	270-2	613-2	354-4	607-2	216-2	490-2	288-4	485-2	167-2	346-2	236-4	376-2
3.00	841-2	695-2	149-1	790-4	145-1	449-2	874-2	511-4	942-2	373-2	685-2	426-4	783-2	291-2	548-2	337-4	611-2	197-2	416-2	241-4	414-2
3.20	133-1	766-2	153-1	765-4	150-1	622-2	117-1	621-4	122-1	492-2	111-1	557-4	115-1	426-2	812-2	383-4	787-2	269-2	518-2	258-4	498-2
3.40	208-1	122-1	227-1	108-3	226-1	848-2	154-1	751-4	156-1	626-2	119-1	536-4	117-1	456-2	850-2	367-4	797-2	292-2	540-2	253-4	510-2
3.60	305-1	178-1	312-1	140-3	310-1	950-2	169-1	750-4	165-1	675-2	119-1	453-4	105-1	463-2	809-2	336-4	766-2	302-2	527-2	237-4	500-2
3.80	174-1	121-1	209-1	858-4	200-1	855-2	145-1	606-4	141-1	637-2	110-1	453-4	925-2	458-2	788-2	300-4	720-2	302-2	545-2	215-4	474-2
4.00	101-1	880-2	141-1	562-4	138-1	741-2	117-1	474-4	116-1	589-2	974-2	378-4	867-2	448-2	806-2	267-4	671-2	292-2	564-2	190-4	438-2
4.20	105-1	908-2	138-1	526-4	135-1	712-2	111-1	413-4	106-1	579-2	977-2	338-4	836-2	435-2	796-2	237-4	622-2	287-2	561-2	170-4	411-2
4.40	149-1	104-1	151-1	553-4	149-1	752-2	122-1	397-4	107-1	585-2	101-1	311-4	836-2	438-2	739-2	218-4	598-2	285-2	539-2	157-4	389-2
4.60	718-2	951-2	147-1	459-4	129-1	776-2	121-1	375-4	106-1	603-2	967-2	293-4	744-2	410-2	645-2	187-4	536-2	273-2	503-2	141-4	358-2
4.80	861-2	929-2	129-1	412-4	121-1	744-2	106-1	331-4	975-2	568-2	820-2	254-4	744-2	410-2	645-2	156-4	467-2	255-2	461-2	124-4	321-2
5.00	510-2	808-2	120-1	330-4	101-1	658-2	996-2	269-4	827-2	507-2	790-2	208-4	637-2	372-2	618-2	156-4	467-2	255-2	406-2	957-5	279-2
5.50	387-2	544-2	770-2	184-4	621-2	477-2	677-2	161-4	545-2	405-2	585-2	138-4	463-2	328-2	484-2	115-4	375-2	245-2	355-2	735-5	228-2
6.00	212-2	348-2	450-2	990-5	365-2	319-2	441-2	909-5	334-2	283-2	416-2	813-5	296-2	239-2	387-2	714-5	250-2	218-2	320-2	586-5	189-2
6.50	702-3	249-2	387-2	603-5	241-2	216-2	363-2	524-5	208-2	187-2	345-2	460-5	180-2	192-2	331-2	494-5	185-2	196-2	305-2	489-5	165-2
7.00	181-2	243-2	386-2	508-5	218-2	197-2	367-2	414-5	177-2	184-2	347-2	394-5	165-2	186-2	326-2	415-5	167-2	184-2	295-2	421-5	148-2
7.50	163-2	237-2	313-2	431-5	198-2	212-2	315-2	386-5	177-2	198-2	315-2	369-5	166-2	187-2	309-2	366-5	156-2	177-2	295-2	421-5	148-2
8.00	110-2	206-2	316-2	330-5	162-2	198-2	305-2	319-5	156-2	190-2	293-2	311-5	149-2	180-2	295-2	314-5	142-2	171-2	288-2	369-5	134-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

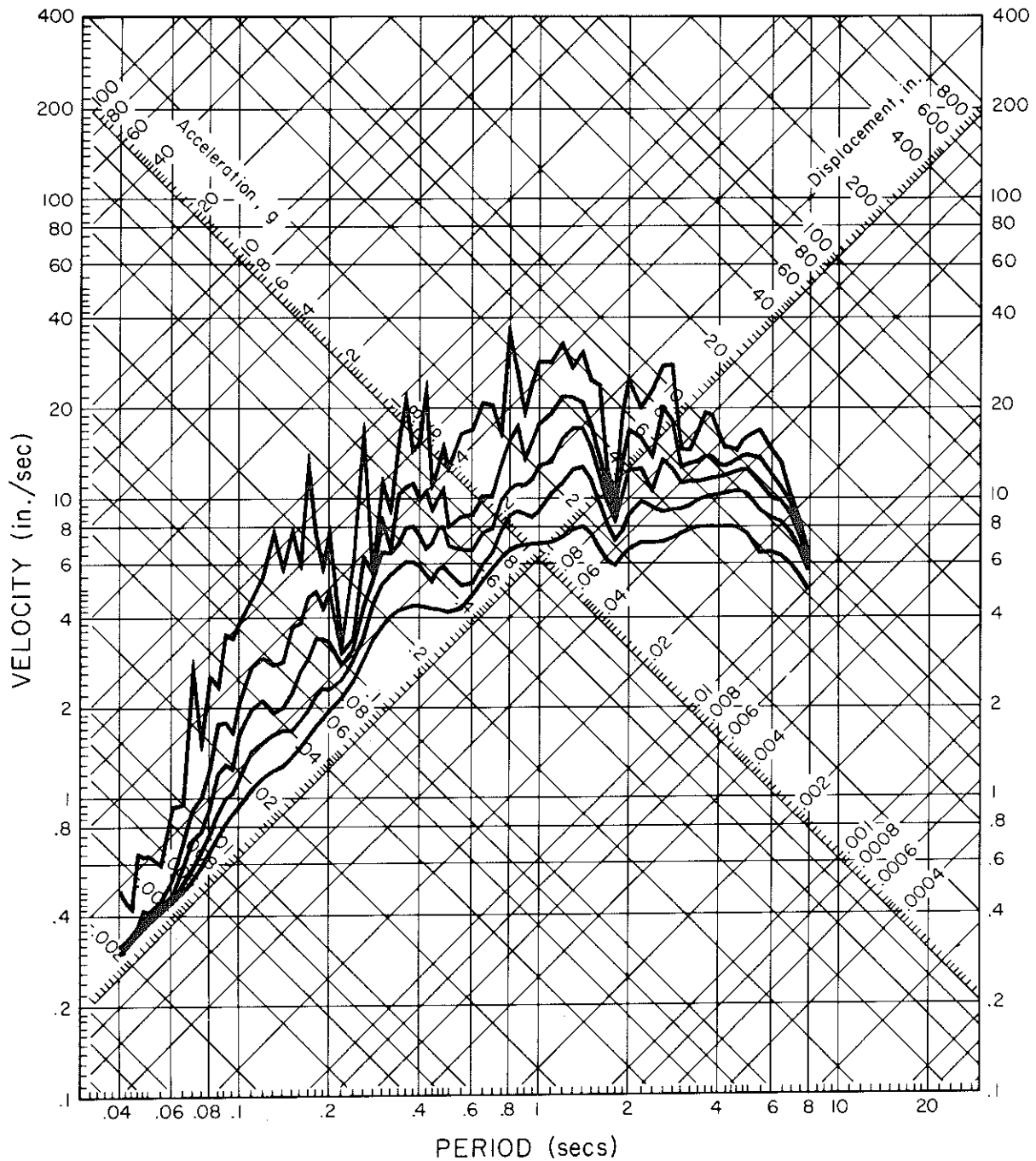


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



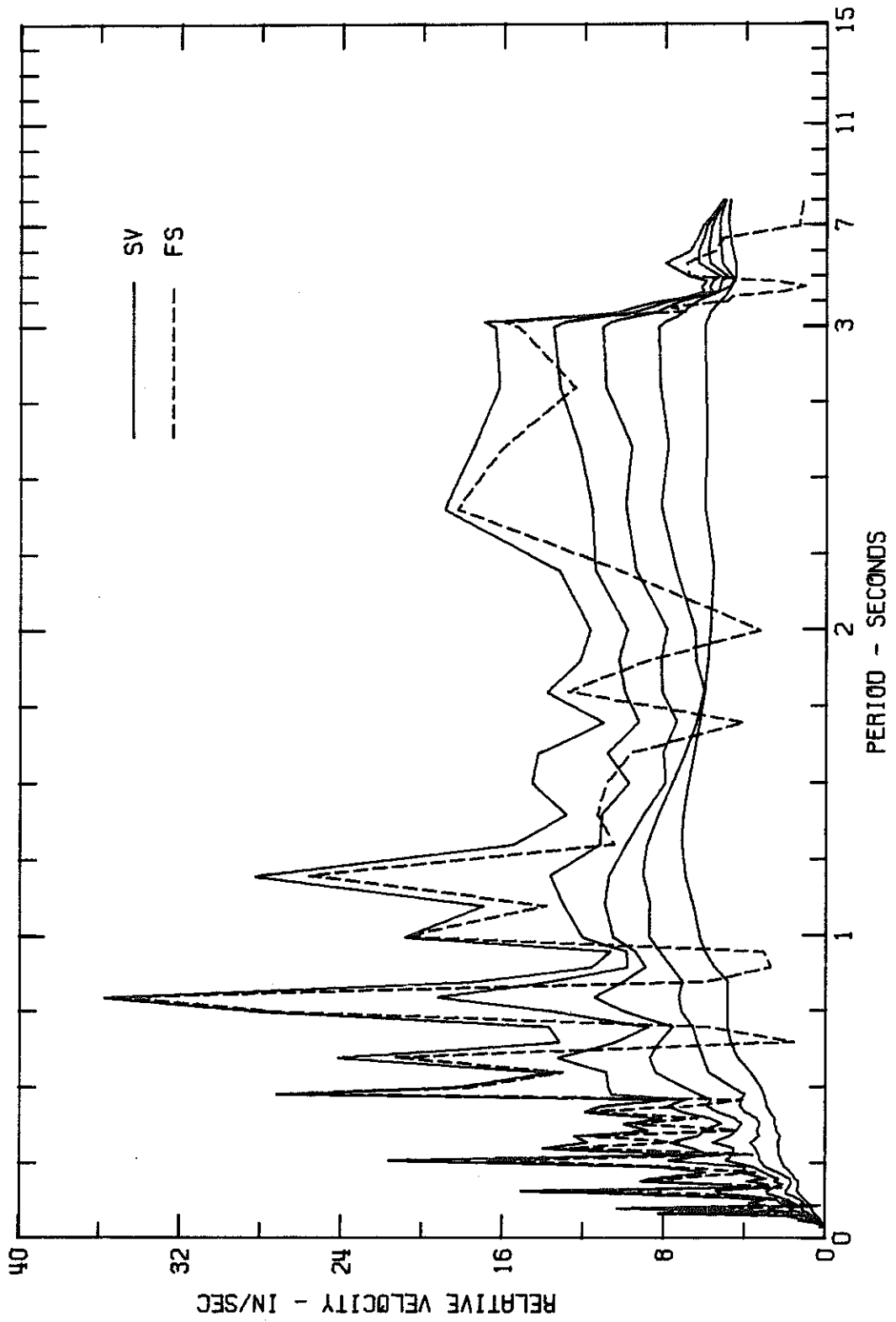
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIII121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	246-3	308-5	312-3	197-3	484-3	201-5	107-3	129-3	317-3	191-5	840-4	122-3	301-3	191-5	746-4	122-3	300-3	190-5	710-4	122-3	299-3																												
0.042	143-3	295-5	208-3	171-3	442-3	220-5	915-4	127-3	329-3	213-5	831-4	124-3	319-3	212-5	803-4	123-3	317-3	211-5	782-4	122-3	315-3																												
0.044	535-4	295-5	253-3	155-3	421-3	243-5	109-3	128-3	347-3	236-5	977-4	125-3	338-3	234-5	889-4	123-3	335-3	232-5	856-4	122-3	331-3																												
0.046	236-3	475-5	465-3	229-3	649-3	270-5	133-3	130-3	369-3	262-5	110-4	126-3	358-3	258-5	979-4	125-3	353-3	254-5	933-4	123-3	348-3																												
0.048	299-3	483-5	346-3	214-3	633-3	319-5	157-3	142-3	418-3	295-5	136-3	131-3	386-3	284-5	112-3	126-3	372-3	277-5	101-3	123-3	363-3																												
0.050	198-3	509-5	392-3	208-3	640-3	326-5	185-3	133-3	409-3	319-5	158-3	131-3	401-3	309-5	126-3	126-3	388-3	301-5	109-3	123-3	378-3																												
0.055	368-3	521-5	446-3	176-3	595-3	391-5	233-3	132-3	447-3	378-5	198-3	127-3	432-3	367-5	167-3	123-3	419-3	361-5	140-3	122-3	412-3																												
0.060	598-3	893-5	707-3	253-3	935-3	509-5	312-3	144-3	533-3	447-5	256-3	126-3	468-3	423-5	211-3	120-3	443-3	425-5	176-3	121-3	445-3																												
0.065	718-3	982-5	827-3	237-3	950-3	729-5	462-3	176-3	704-3	606-5	333-3	147-3	586-3	533-5	275-3	129-3	516-3	495-5	235-3	120-3	479-3																												
0.070	246-2	302-4	254-2	632-3	271-2	102-4	711-3	213-3	921-3	809-5	446-3	169-3	726-3	647-5	361-3	138-3	581-3	588-5	301-3	123-3	527-3																												
0.075	560-3	183-4	127-2	333-3	153-2	120-4	779-3	220-3	126-2	118-4	740-3	190-3	933-3	972-5	601-3	159-3	763-3	845-5	443-3	136-3	664-3																												
0.080	104-2	324-4	224-2	451-3	255-2	161-4	145-2	337-3	177-2	185-4	953-3	235-3	129-2	143-4	814-3	183-3	100-2	116-4	575-3	149-3	816-3																												
0.085	148-2	318-4	194-2	451-3	235-2	240-4	145-2	337-3	177-2	185-4	953-3	235-3	129-2	143-4	814-3	183-3	100-2	116-4	575-3	149-3	816-3																												
0.090	166-2	509-4	331-2	643-3	355-2	257-4	136-2	324-3	179-2	185-4	953-3	235-3	129-2	143-4	814-3	183-3	100-2	116-4	575-3	149-3	816-3																												
0.095	211-2	520-4	330-2	590-3	344-2	251-4	132-2	284-3	166-2	188-4	109-2	216-3	124-2	157-4	943-3	180-3	104-2	133-4	644-3	154-3	885-3																												
0.100	106-2	625-4	358-2	639-3	393-2	332-4	186-2	339-3	208-2	261-4	144-2	268-3	164-2	185-4	107-2	195-3	116-2	150-4	685-3	157-3	943-3																												
0.110	472-3	820-4	405-2	693-3	468-2	486-4	263-2	408-3	277-2	348-4	190-2	290-3	198-2	252-4	121-2	212-3	143-2	187-4	749-3	161-3	107-2																												
0.120	415-2	106-3	522-2	758-3	559-2	562-4	232-2	398-3	294-2	405-4	167-2	287-3	212-2	293-4	137-2	210-3	153-2	223-4	930-3	167-3	117-2																												
0.130	414-2	161-3	760-2	977-3	780-2	578-4	260-2	351-3	279-2	440-4	181-2	246-3	193-2	337-4	150-2	209-3	163-2	255-4	101-2	162-3	123-2																												
0.140	705-3	131-3	579-2	686-3	590-2	639-4	261-2	332-3	287-2	449-4	198-2	236-3	201-2	377-4	160-2	196-3	169-2	285-4	110-2	159-3	128-2																												
0.150	731-2	187-3	738-2	854-3	787-2	898-4	355-2	408-3	376-2	540-4	212-2	244-3	226-2	400-4	160-2	186-3	167-2	329-4	109-2	152-3	138-2																												
0.160	478-2	156-3	587-2	625-3	614-2	988-4	351-2	396-3	388-2	683-4	233-2	271-3	268-2	465-4	169-2	189-3	182-2	379-4	112-2	154-3	148-2																												
0.170	130-1	360-3	133-1	127-2	133-1	129-3	431-2	455-3	476-2	796-4	288-2	281-3	294-2	534-4	185-2	192-3	197-2	436-4	115-2	157-3	161-2																												
0.180	269-2	222-3	707-2	701-3	775-2	141-3	447-2	448-3	495-2	982-4	310-2	310-3	342-2	632-4	194-2	201-3	220-2	499-4	115-2	161-3	174-2																												
0.190	386-2	179-3	564-2	508-3	593-2	131-3	365-2	371-3	434-2	103-3	285-2	293-3	343-2	708-4	197-2	202-3	234-2	562-4	124-2	164-3	186-2																												
0.200	422-2	250-3	710-2	640-3	786-2	158-3	434-2	400-3	496-2	106-3	283-2	278-3	334-2	736-4	194-2	192-3	231-2	627-4	126-2	164-3	197-2																												
0.220	290-2	115-3	319-2	244-3	330-2	107-3	267-2	227-3	307-2	983-4	215-2	209-3	280-2	873-4	177-2	189-3	249-2	761-4	136-2	166-3	217-2																												
0.240	541-2	236-3	594-2	420-3	619-2	131-3	302-2	233-3	344-2	121-3	259-2	213-3	316-2	111-3	221-2	197-3	291-2	946-4	158-2	171-3	247-2																												
0.260	146-1	691-3	159-1	104-2	167-1	266-3	577-2	403-3	645-2	183-3	364-2	281-3	444-2	144-3	260-2	223-3	349-2	120-3	181-2	189-3	291-2																												
0.280	474-2	252-3	542-2	329-3	566-2	252-3	412-2	329-3	565-2	246-3	395-2	321-3	552-2	202-3	315-2	267-3	454-2	152-3	223-2	208-3	341-2																												
0.300	790-2	554-3	108-1	630-3	116-1	408-3	677-2	462-3	855-2	319-3	508-2	362-3	669-2	250-3	384-2	286-3	525-2	180-3	264-2	215-3	378-2																												
0.320	591-2	472-3	900-2	471-3	927-2	351-3	614-2	352-3	691-2	339-3	506-2	338-3	665-2	286-3	429-2	288-3	562-2	208-3	305-2	219-3	409-2																												
0.340	115-1	836-3	152-1	740-3	154-1	565-3	943-2	503-3	105-1	386-3	614-2	346-3	713-2	321-3	465-2	290-3	594-2	231-3	327-2	214-3	427-2																												
0.360	156-1	125-2	213-1	991-3	219-1	636-3	108-1	500-3	111-1	463-3	759-2	369-3	809-2	356-3	514-2	288-3	622-2	249-3	350-2	208-3	436-2																												
0.380	819-2	885-3	140-1	627-3	146-1	689-3	110-1	490-3	114-1	493-3	790-2	348-3	816-2	377-3	519-2	272-3	624-2	267-3	351-2	199-3	442-2																												
0.400	117-1	100-2	152-1	640-3	157-1	638-3	960-2	408-3	100-1	482-3	720-2	309-3	757-2	383-3	517-2	249-3	602-2	281-3	346-2	188-3	442-2																												
0.420	233-1	156-2																																															

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP SOOW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

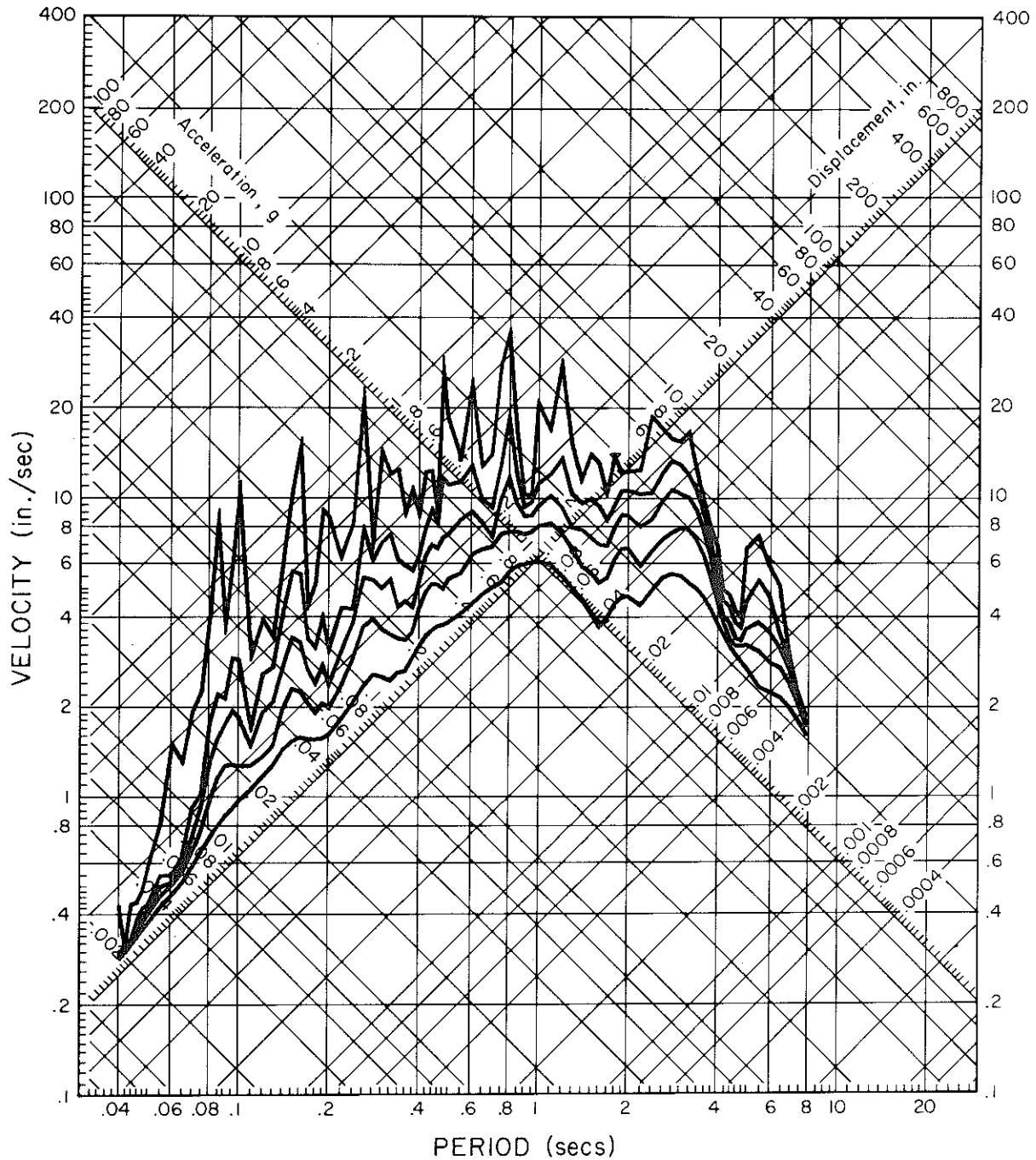


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP S00W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIH121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP SDOH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

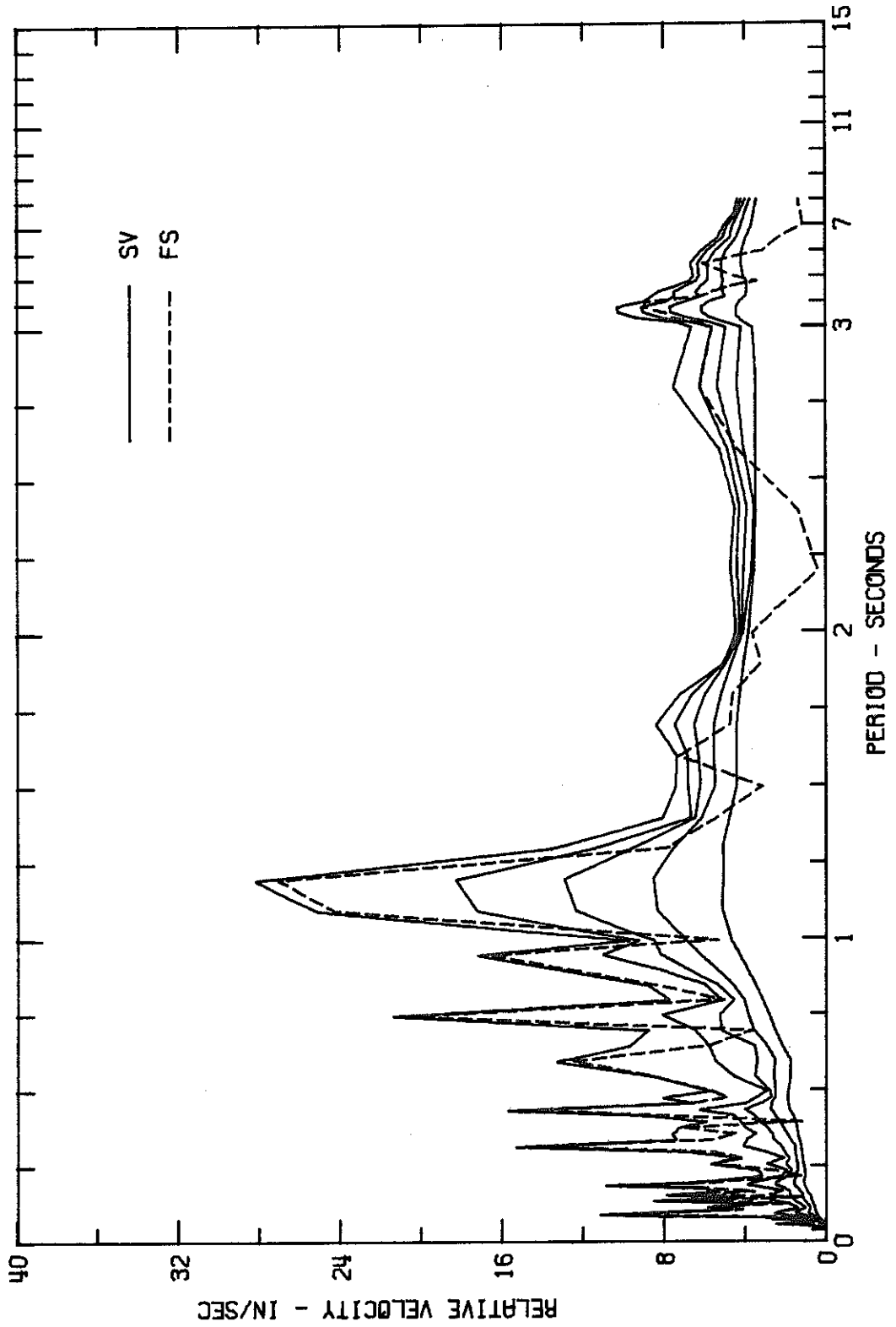
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	163-3	271-5	249-3	173-3	425-3	189-5	885-4	121-3	298-3	186-5	837-4	119-3	292-3	183-5	808-4	117-3	288-3
0.042	879-4	208-5	132-3	120-3	311-3	210-5	957-4	122-3	315-3	207-5	905-4	120-3	310-3	205-5	881-4	119-3	307-3
0.044	168-3	303-5	239-3	160-3	433-3	231-5	107-3	122-3	329-3	232-5	992-4	123-3	332-3	230-5	943-4	121-3	329-3
0.046	178-3	321-5	244-3	155-3	439-3	281-5	122-3	136-3	384-3	268-5	107-3	129-3	367-3	258-5	104-3	125-3	353-3
0.048	177-3	368-5	253-3	163-3	482-3	321-5	144-3	143-3	421-3	303-5	128-3	134-3	396-3	287-5	118-3	128-3	376-3
0.050	188-3	462-5	333-3	189-3	580-3	343-5	167-3	140-3	431-3	333-5	151-3	135-3	418-3	320-5	140-3	130-3	402-3
0.055	254-3	710-5	601-3	240-3	812-3	477-5	309-3	161-3	545-3	435-5	236-3	148-3	497-3	404-5	203-3	137-3	462-3
0.060	112-2	143-4	133-2	407-3	150-2	520-5	384-3	147-3	544-3	489-5	316-3	139-3	512-3	480-5	272-3	137-3	503-3
0.065	524-3	135-4	113-2	326-3	130-2	652-5	431-3	157-3	630-3	604-5	357-3	146-3	584-3	575-5	338-3	140-3	556-3
0.070	988-3	215-4	157-2	449-3	193-2	102-4	741-3	214-3	917-3	815-5	547-3	169-3	732-3	731-5	431-3	154-3	656-3
0.075	477-3	269-4	193-2	490-3	225-2	122-4	820-3	222-3	102-2	110-4	701-3	198-3	923-3	920-5	531-3	166-3	771-3
0.080	360-2	517-4	393-2	827-3	406-2	227-4	145-2	363-3	178-2	165-4	100-2	266-3	129-2	122-4	681-3	195-3	965-3
0.085	821-2	114-3	832-2	161-2	845-2	299-4	189-2	421-3	221-2	211-4	117-2	297-3	156-2	156-4	830-3	220-3	115-2
0.090	207-2	543-4	330-2	686-3	379-2	306-4	170-2	503-3	292-2	294-4	170-2	336-3	194-2	193-4	114-2	220-3	128-2
0.095	265-2	942-4	593-2	106-2	623-2	441-4	271-2	503-3	292-2	294-4	170-2	336-3	194-2	193-4	114-2	220-3	128-2
0.100	848-2	169-3	103-1	173-2	106-1	455-4	220-2	349-3	259-2	366-4	158-2	259-3	184-2	202-4	118-2	205-3	136-2
0.110	275-3	519-4	293-2	439-3	296-2	300-4	179-2	252-3	171-2	259-4	142-2	222-3	147-2	222-4	107-2	191-3	126-2
0.120	230-2	752-4	380-2	534-3	393-2	495-4	220-2	349-3	259-2	366-4	158-2	259-3	184-2	202-4	118-2	205-3	136-2
0.130	178-2	709-4	299-2	429-3	343-2	563-4	245-2	340-3	272-2	432-4	190-2	265-3	209-2	307-4	125-2	190-3	148-2
0.140	370-2	135-3	578-2	704-3	606-2	916-4	360-2	479-3	411-2	606-4	233-2	317-3	272-2	440-4	157-2	234-3	197-2
0.150	660-2	249-3	100-1	113-2	104-1	137-3	521-2	627-3	575-2	819-4	288-2	371-3	343-2	551-4	199-2	256-3	231-2
0.160	139-1	387-3	151-1	154-2	152-1	142-3	547-2	568-3	560-2	839-4	293-2	337-3	329-2	575-4	198-2	235-3	226-2
0.170	218-2	118-3	426-2	421-3	439-2	915-4	330-2	324-3	338-2	723-4	253-2	255-3	267-2	558-4	185-2	199-3	206-2
0.180	496-2	151-3	520-2	477-3	527-2	908-4	281-2	286-3	317-2	687-4	209-2	219-3	240-2	547-4	175-2	174-3	191-2
0.190	864-2	277-3	923-2	787-3	919-2	122-3	394-2	346-3	404-2	842-4	254-2	238-3	278-2	623-4	173-2	178-3	206-2
0.200	763-2	275-3	869-2	704-3	665-2	993-4	288-2	253-3	312-2	757-4	238-2	193-3	238-2	632-4	177-2	168-3	198-2
0.220	345-2	222-3	591-2	470-3	636-2	151-3	418-2	321-3	433-2	108-3	306-2	230-3	310-2	834-4	239-2	181-3	238-2
0.240	820-2	317-3	821-2	564-3	831-2	163-3	356-2	291-3	428-2	147-3	361-2	264-3	316-3	536-2	335-2	235-3	397-2
0.260	167-1	896-3	217-1	135-2	216-1	330-3	783-2	504-3	798-2	226-3	496-2	339-3	547-2	154-3	325-2	235-3	374-2
0.280	360-2	323-3	670-2	422-3	726-2	278-3	655-2	390-3	716-2	240-3	453-2	272-3	503-2	174-3	350-2	199-3	366-2
0.300	127-1	692-3	140-1	787-3	145-1	341-3	677-2	360-3	625-2	239-3	462-2	316-3	536-2	503-2	174-3	350-2	199-3
0.320	725-2	619-3	117-1	618-3	121-1	388-3	771-2	389-3	763-2	274-3	562-2	273-3	538-2	178-3	374-2	183-3	350-2
0.340	117-1	676-3	124-1	598-3	124-1	338-3	629-2	300-3	626-2	236-3	472-2	212-3	436-2	184-3	328-2	164-3	340-2
0.360	440-2	513-3	877-2	405-3	896-2	343-3	601-2	271-3	599-2	261-3	440-2	206-3	455-2	192-3	340-2	153-3	336-2
0.380	947-2	656-3	100-1	464-3	108-1	350-3	513-2	247-3	579-2	261-3	417-2	185-3	433-2	217-3	325-2	155-3	359-2
0.400	635-2	567-3	810-2	362-3	891-2	414-3	575-2	265-3	651-2	343-3	448-2	220-3	540-2	276-3	342-2	179-3	434-2
0.420	119-1	827-3	119-1	479-3	123-1	537-3	713-2	313-3	804-2	434-3	536-2	253-3	650-2	329-3	400-2	194-3	492-2
0.440	631-2	470-3	110-1	459-3	124-1	649-3	783-2	342-3	926-2	494-3	588-2	263-3	705-2	365-3	424-2	197-3	521-2
0.460	408-2	671-3	788-2	324-3	917-2	606-3	693-2	292-3	829-2	500-3	571-2	242-3	683-2	379-3	423-2	186-3	518-2
0.480	271-1	209-2	273-1	929-3	273-1	899-3	106-1	400-3	117-1	571-3	632-2	254-3	747-2	382-3	400-2	172-3	500-2
0.500	176-1	148-2	184-1	607-3	186-1	893-3	107-1	364-3	112-1	610-3	699-2	249-3	766-2	432-3	461-2	179-3	543-2
0.550	130-1	121-2	135-1	409-3	138-1	100-2	109-1	338-3	114-1	750-3	847-2	254-3	857-2	495-3	582-2	169-3	565-2
0.600	213-1	231-2	242-1	656-3	242-1	124-2	133-1	354-3	130-1	867-3	875-2	246-3	908-2	704-3	608-2	180-3	657-2
0.650	157-2	133-2	131-1	323-3	128-1	102-2	104-1	249-3	995-2	860-3	827-2	210-3	832-2	627-3	636-2	172-3	681-2
0.700	592-2	157-2	137-1	328-3	141-1	104-2	876-2	218-3	939-2	831-3	756-2	174-3	746-2	774-3	663-2	164-3	694-2

IIII121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP SOOW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT													
0.75	272-1	335-2	279-1	609-3	280-1	156-2	134-1	284-3	130-1	120-2	100-1	219-3	100-1	914-3	717-2	170-3	766-2
0.80	350-1	458-2	358-1	732-3	359-1	241-2	192-1	386-3	189-1	151-2	114-1	243-3	118-1	990-3	730-2	161-3	777-2
0.85	592-2	228-2	175-1	324-3	169-1	162-2	138-1	230-3	120-1	130-2	100-1	184-3	561-2	105-2	708-2	153-3	777-2
0.90	273-2	148-2	115-1	187-3	103-1	134-2	983-2	170-3	942-2	125-2	892-2	159-3	876-2	109-2	767-2	141-3	762-2
0.95	311-2	154-2	106-1	175-3	102-1	147-2	988-2	167-3	978-2	133-2	945-2	152-3	883-2	117-2	825-2	136-3	778-2
1.00	208-1	334-2	208-1	342-3	210-1	180-2	120-1	184-3	113-1	151-2	105-2	155-3	950-2	129-2	877-2	135-3	815-2
1.10	138-1	299-2	169-1	253-3	171-1	213-2	130-1	180-3	121-1	180-2	109-1	153-3	103-1	146-2	874-2	127-3	834-2
1.20	256-1	541-2	283-1	384-3	283-1	262-2	137-1	186-3	103-1	166-2	988-2	101-3	803-2	146-2	908-2	106-3	767-2
1.30	104-1	314-2	154-1	190-3	152-1	214-2	111-1	130-3	103-1	166-2	988-2	101-3	803-2	146-2	908-2	106-3	767-2
1.40	113-1	258-2	128-1	154-3	115-1	215-2	111-1	112-3	968-2	175-2	903-2	920-4	787-2	133-2	829-2	717-4	597-2
1.50	108-1	337-2	145-1	153-3	141-1	238-2	977-2	108-3	100-1	178-2	799-2	815-4	747-2	135-2	762-2	628-4	568-2
1.60	964-2	334-2	142-1	133-3	131-1	240-2	108-1	961-4	944-2	179-2	808-2	718-4	703-2	133-2	696-2	548-4	525-2
1.70	409-2	283-2	110-1	100-3	104-1	229-2	930-2	811-4	846-2	188-2	742-2	672-4	698-2	148-2	640-2	539-4	547-2
1.80	128-1	400-2	138-1	126-3	139-1	273-2	100-1	865-4	956-2	231-2	818-2	735-4	807-2	180-2	607-2	587-4	631-2
1.90	887-2	370-2	121-1	104-3	122-1	323-2	103-1	916-4	106-1	268-2	820-2	767-4	888-2	207-2	649-2	608-4	686-2
2.00	329-2	394-2	117-1	100-3	123-1	339-2	987-2	868-4	106-1	280-2	789-2	722-4	809-2	218-2	652-2	577-4	685-2
2.20	103-1	437-2	133-1	128-3	125-1	364-2	114-1	713-4	104-1	283-2	950-2	601-4	809-2	209-2	748-2	453-4	598-2
2.40	183-1	724-2	189-1	128-3	189-1	401-2	116-1	713-4	105-1	326-2	996-2	581-4	855-2	257-2	823-2	461-4	672-2
2.60	160-1	714-2	175-1	108-3	172-1	505-2	122-1	765-4	122-1	407-2	966-2	619-4	985-2	304-2	784-2	470-4	736-2
2.80	124-1	710-2	162-1	926-4	159-1	600-2	132-1	784-4	134-1	481-2	109-1	632-4	108-1	345-2	829-2	461-4	774-2
3.00	152-1	744-2	164-1	846-4	155-1	622-2	135-1	707-4	130-1	498-2	111-1	568-4	104-1	382-2	836-2	440-4	800-2
3.20	159-1	856-2	169-1	855-4	168-1	612-2	129-1	612-4	120-1	516-2	106-1	518-4	101-1	401-2	796-2	411-4	788-2
3.40	125-1	680-2	128-1	601-4	125-1	576-2	113-1	510-4	106-1	495-2	962-2	441-4	915-2	394-2	743-2	358-4	729-2
3.60	703-2	572-2	102-1	451-4	999-2	517-2	545-2	408-4	903-2	450-2	837-2	358-4	786-2	369-2	710-2	301-4	644-2
3.80	772-2	487-2	944-2	345-4	806-2	440-2	865-2	312-4	728-2	389-2	788-2	277-4	644-2	332-2	681-2	243-4	549-2
4.00	495-2	440-2	831-2	281-4	691-2	346-2	783-2	221-4	544-2	319-2	722-2	205-4	502-2	291-2	642-2	193-4	458-2
4.20	470-2	332-2	685-2	192-4	497-2	305-2	662-2	177-4	456-2	271-2	632-2	160-4	406-2	257-2	588-2	155-4	385-2
4.40	208-2	334-2	608-2	176-4	477-2	304-2	571-2	161-4	435-2	268-2	536-2	145-4	383-2	238-2	530-2	131-4	340-2
4.60	111-2	309-2	620-2	149-4	423-2	282-2	580-2	137-4	386-2	250-2	531-2	124-4	342-2	236-2	462-2	114-4	322-2
4.80	262-2	306-2	599-2	136-4	401-2	283-2	564-2	126-4	371-2	256-2	520-2	116-4	336-2	246-2	462-2	114-4	322-2
5.00	685-2	546-2	685-2	223-4	686-2	364-2	528-2	149-4	458-2	293-2	493-2	121-4	368-2	259-2	470-2	110-4	326-2
5.50	696-2	659-2	800-2	223-4	753-2	471-2	638-2	159-4	538-2	339-2	583-2	115-4	387-2	271-2	520-2	943-5	309-2
6.00	553-2	570-2	679-2	162-4	597-2	448-2	638-2	127-4	469-2	342-2	588-2	982-5	358-2	270-2	525-2	813-5	283-2
6.50	512-2	530-2	640-2	128-4	512-2	367-2	611-2	890-5	355-2	328-2	576-2	805-5	317-2	281-2	535-2	728-5	272-2
7.00	138-2	339-2	613-2	708-5	304-2	322-2	595-2	674-5	289-2	299-2	570-2	635-5	268-2	268-2	535-2	600-5	240-2
7.50	127-2	267-2	561-2	487-5	224-2	264-2	554-2	483-5	221-2	257-2	541-2	478-5	216-2	243-2	521-2	479-5	204-2
8.00	115-2	239-2	514-2	382-5	187-2	226-2	513-2	366-5	177-2	222-2	510-2	365-5	174-2	221-2	501-2	387-5	173-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

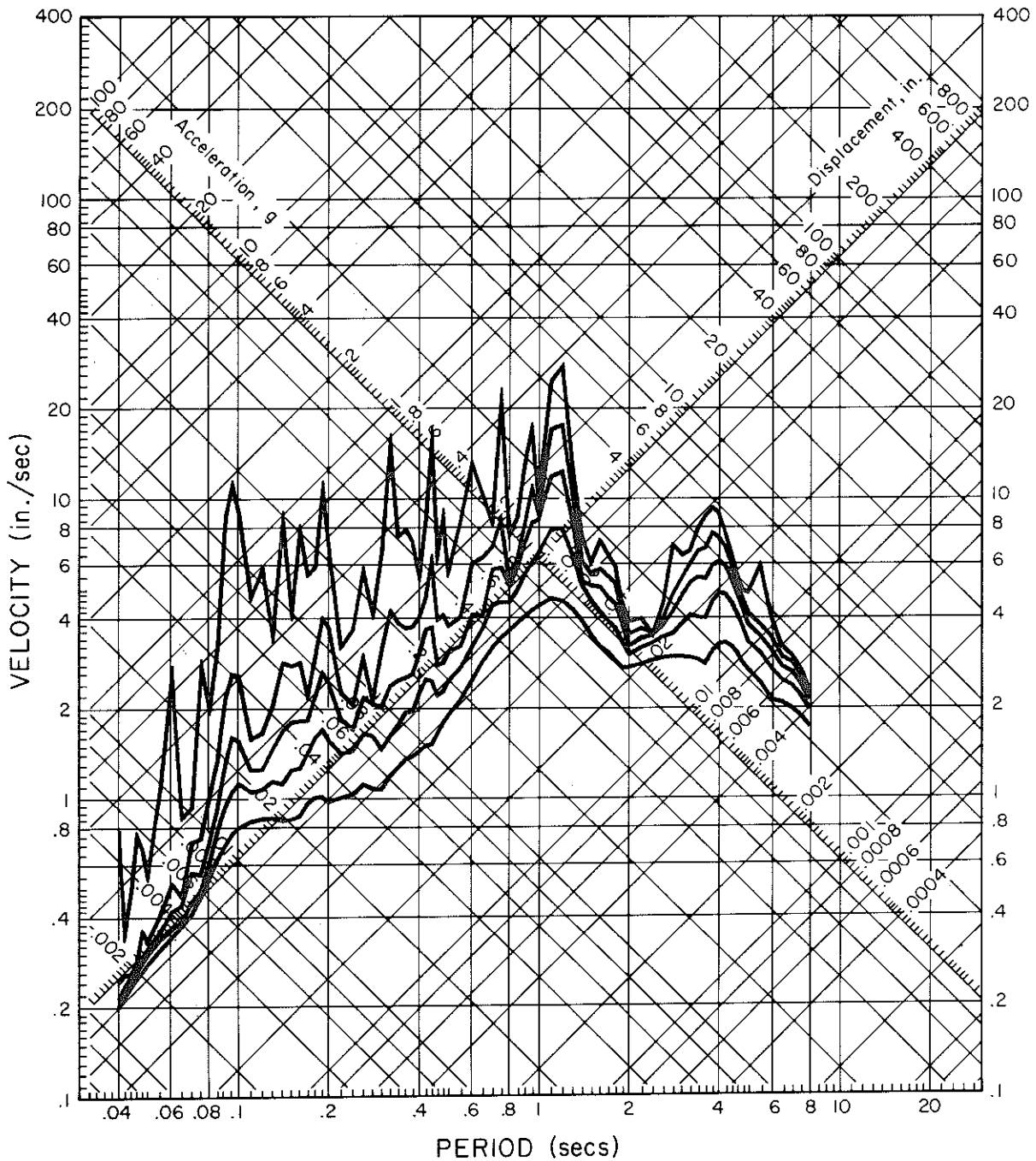


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H121 71.071.0 900 SOUTH FREMONT AVENUE, BASEMENT, ALHAMBRA, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

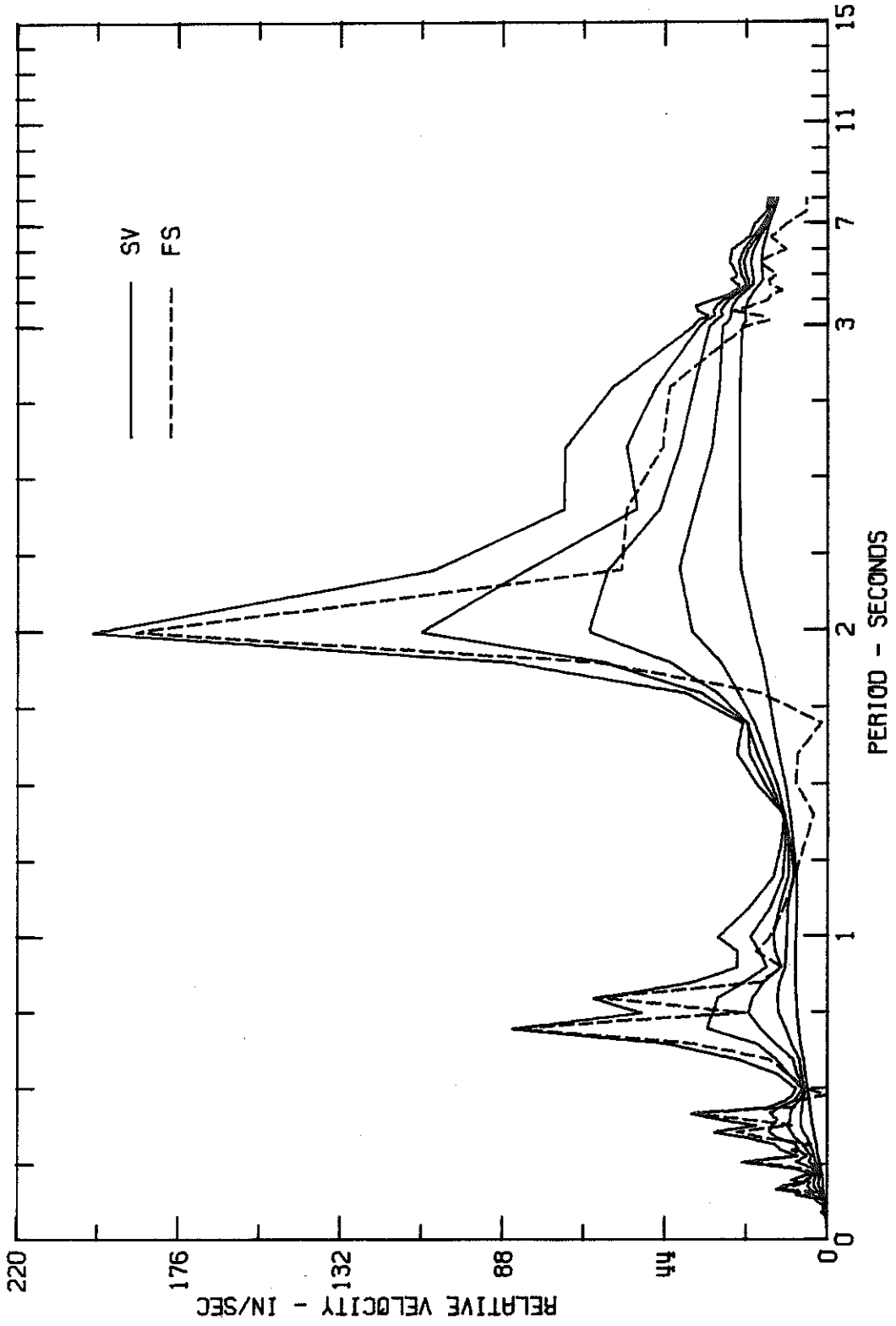
DAMPING = 0 PER CENT						DAMPING = 2 PER CENT						DAMPING = 5 PER CENT						DAMPING = 10 PER CENT						DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	210-1	255-2	214-1	465-3	214-1	102-2	815-2	186-3	860-2	711-3	528-2	129-3	595-2	546-3	388-2	100-3	457-2	416-3	287-2	800-4	348-2								
0.80	504-2	976-3	772-2	156-3	767-2	699-3	517-2	111-3	549-2	660-3	459-2	105-3	518-2	581-3	409-2	946-4	456-2	469-3	316-2	800-4	368-2								
0.85	848-2	119-2	884-2	169-3	883-2	869-3	603-2	123-3	642-2	808-3	539-2	114-3	597-2	883-3	464-2	983-4	505-2	527-3	352-2	803-4	390-2								
0.90	126-1	188-2	130-1	237-3	131-1	120-2	816-2	152-3	642-2	104-2	681-2	131-3	727-2	817-3	545-2	104-3	570-2	589-3	392-2	806-4	411-2								
0.95	165-1	262-2	172-1	297-3	173-1	166-2	110-1	188-3	109-1	127-2	823-2	145-3	844-2	946-3	627-2	109-3	626-2	650-3	435-2	800-4	430-2								
1.00	534-2	163-2	971-2	166-3	102-1	143-2	925-2	146-3	899-2	136-2	852-2	140-3	859-2	106-2	693-2	110-3	669-2	707-3	472-2	750-4	444-2								
1.10	243-1	440-2	251-1	372-3	251-1	302-2	173-1	256-3	173-1	210-2	129-1	179-3	120-1	140-2	843-2	121-3	799-2	822-3	518-2	754-4	469-2								
1.20	270-1	538-2	282-1	382-3	281-1	340-2	183-1	242-3	178-1	237-2	124-1	169-3	124-1	153-2	856-2	111-3	803-2	879-3	511-2	693-4	460-2								
1.30	788-2	262-2	135-1	158-3	126-1	216-2	114-1	131-3	104-1	175-2	957-2	107-3	849-2	135-2	754-2	839-4	653-2	894-3	514-2	600-4	432-2								
1.40	536-2	167-2	807-2	871-4	749-2	138-2	671-2	723-4	621-2	118-2	645-2	624-4	533-2	114-2	615-2	617-4	515-2	874-3	477-2	511-4	392-2								
1.50	315-2	147-2	741-2	669-4	616-2	134-2	684-2	601-4	564-2	130-2	620-2	565-4	517-2	109-2	559-2	514-4	458-2	841-3	443-2	433-4	352-2								
1.60	727-2	187-2	736-2	747-4	734-2	150-2	685-2	601-4	590-2	123-2	633-2	526-4	512-2	107-2	559-2	444-4	421-2	824-3	444-2	367-4	323-2								
1.70	475-2	177-2	841-2	628-4	656-2	150-2	751-2	531-4	554-2	127-2	655-2	455-4	471-2	106-2	555-2	388-4	394-2	837-3	440-2	327-4	309-2								
1.80	461-2	171-2	723-2	542-4	599-2	150-2	661-2	474-4	524-2	128-2	596-2	408-4	448-2	106-2	519-2	346-4	372-2	836-3	425-2	294-4	291-2								
1.90	322-2	135-2	503-2	383-4	447-2	128-2	507-2	290-4	356-2	103-2	412-2	266-4	324-2	968-3	409-2	252-4	304-2	880-3	383-2	241-4	276-2								
2.00	365-2	125-2	447-2	319-4	392-2	113-2	440-2	276-4	372-2	121-2	405-2	258-4	347-2	112-2	366-2	244-4	321-2	994-3	353-2	227-4	283-2								
2.10	473-2	140-2	473-2	297-4	401-2	130-2	427-2	290-4	425-2	116-2	495-2	333-4	386-2	100-2	464-2	293-4	333-2	831-3	403-2	262-4	274-2								
2.20	450-2	135-2	450-2	239-4	353-2	136-2	426-2	243-4	358-2	134-2	388-2	242-4	353-2	127-2	355-2	234-4	334-2	111-2	347-2	216-4	291-2								
2.30	531-2	188-2	531-2	284-4	453-2	167-2	491-2	283-4	404-2	157-2	457-2	241-4	380-2	144-2	411-2	227-4	349-2	123-2	351-2	208-4	298-2								
2.40	623-2	317-2	752-2	413-4	711-2	217-2	627-2	253-4	486-2	190-2	536-2	250-4	426-2	160-2	442-2	218-4	359-2	134-2	346-2	199-4	301-2								
2.50	561-2	313-2	663-2	335-4	656-2	264-2	563-2	301-4	554-2	229-2	495-2	263-4	481-2	185-2	417-2	216-4	387-2	143-2	367-2	190-4	300-2								
2.60	637-2	345-2	745-2	345-4	678-2	315-2	664-2	315-4	619-2	271-2	581-2	274-4	533-2	211-2	509-2	220-4	414-2	151-2	410-2	180-4	298-2								
2.70	760-2	438-2	946-2	388-4	811-2	368-2	826-2	326-4	680-2	299-2	693-2	267-4	553-2	219-2	578-2	204-4	405-2	159-2	438-2	168-4	293-2								
2.80	801-2	510-2	102-1	402-4	890-2	397-2	902-2	313-4	693-2	312-2	766-2	248-4	545-2	231-2	614-2	185-4	403-2	162-2	447-2	154-4	284-2								
2.90	896-2	571-2	103-1	404-4	945-2	471-2	912-2	334-4	779-2	368-2	773-2	263-4	603-2	279-2	616-2	204-4	462-2	190-2	442-2	152-4	315-2								
3.00	894-2	569-2	894-2	364-4	894-2	474-2	786-2	304-4	746-2	399-2	691-2	257-4	626-2	311-2	572-2	204-4	489-2	211-2	426-2	155-4	332-2								
3.10	619-2	516-2	863-2	299-4	772-2	465-2	750-2	270-4	695-2	401-2	620-2	236-4	601-2	322-2	490-2	195-4	482-2	223-2	398-2	151-4	334-2								
3.20	556-2	461-2	825-2	243-4	658-2	427-2	746-2	226-4	610-2	381-2	642-2	204-4	545-2	317-2	511-2	177-4	453-2	227-2	390-2	142-4	325-2								
3.30	44-4	607-2	408-2	745-2	197-4	387-2	696-2	187-4	525-2	355-2	623-2	174-4	484-2	303-2	517-2	157-4	415-2	225-2	388-2	131-4	307-2								
3.40	336-2	379-2	675-2	168-4	497-2	356-2	640-2	158-4	466-2	329-2	586-2	148-4	431-2	286-2	508-2	137-4	374-2	218-2	394-2	121-4	285-2								
3.50	443-2	390-2	652-2	159-4	491-2	332-2	624-2	136-4	481-2	305-2	582-2	126-4	383-2	266-2	516-2	119-4	335-2	215-2	409-2	110-4	271-2								
3.60	611-2	535-2	671-2	180-4	611-2	333-2	635-2	112-4	381-2	323-2	635-2	105-4	349-2	269-2	519-2	950-5	307-2	214-2	421-2	914-5	244-2								
3.70	310-2	383-2	615-2	109-4	401-2	330-2	585-2	308-2	508-2	308-2	585-2	547-2	864-5	313-2	260-2	494-2	787-5	272-2	206-2	413-2	764-5								
3.80	234-2	333-2	534-2	807-5	322-2	308-2	508-2	747-5	297-2	286-2	473-2	709-5	277-2	258-2	441-2	685-5	249-2	217-2	393-2	680-5	210-2								
3.90	115-2	336-2	503-2	701-5	301-2	319-2	484-2	669-5	286-2	290-2	457-2	633-5	266-2	267-2	419-2	617-5	240-2	224-2	365-2	620-5	201-2								
4.00	126-2	322-2	449-2	587-5	270-2	309-2	439-2	439-2	255-2	290-2	424-2	543-5	243-2	265-2	399-2	540-5	222-2	226-2	353-2	559-5	189-2								
4.10	136-2	295-2	432-2	472-5	232-2	286-2	418-2	461-5	229-2	273-2	399-2	453-5	215-2	254-2	374-2	464-5	200-2	223-2	343-2	504-5	175-2								

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

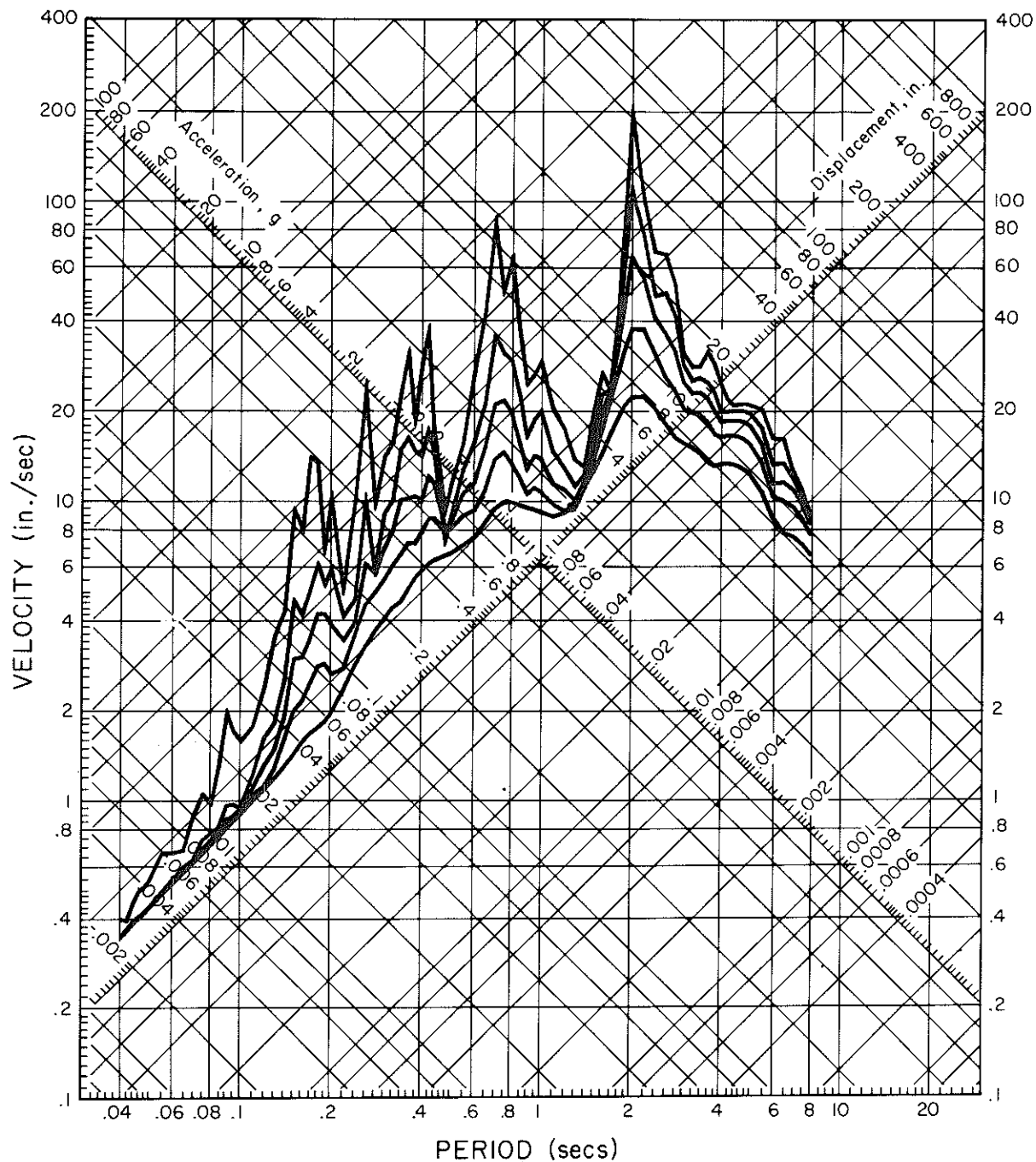


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



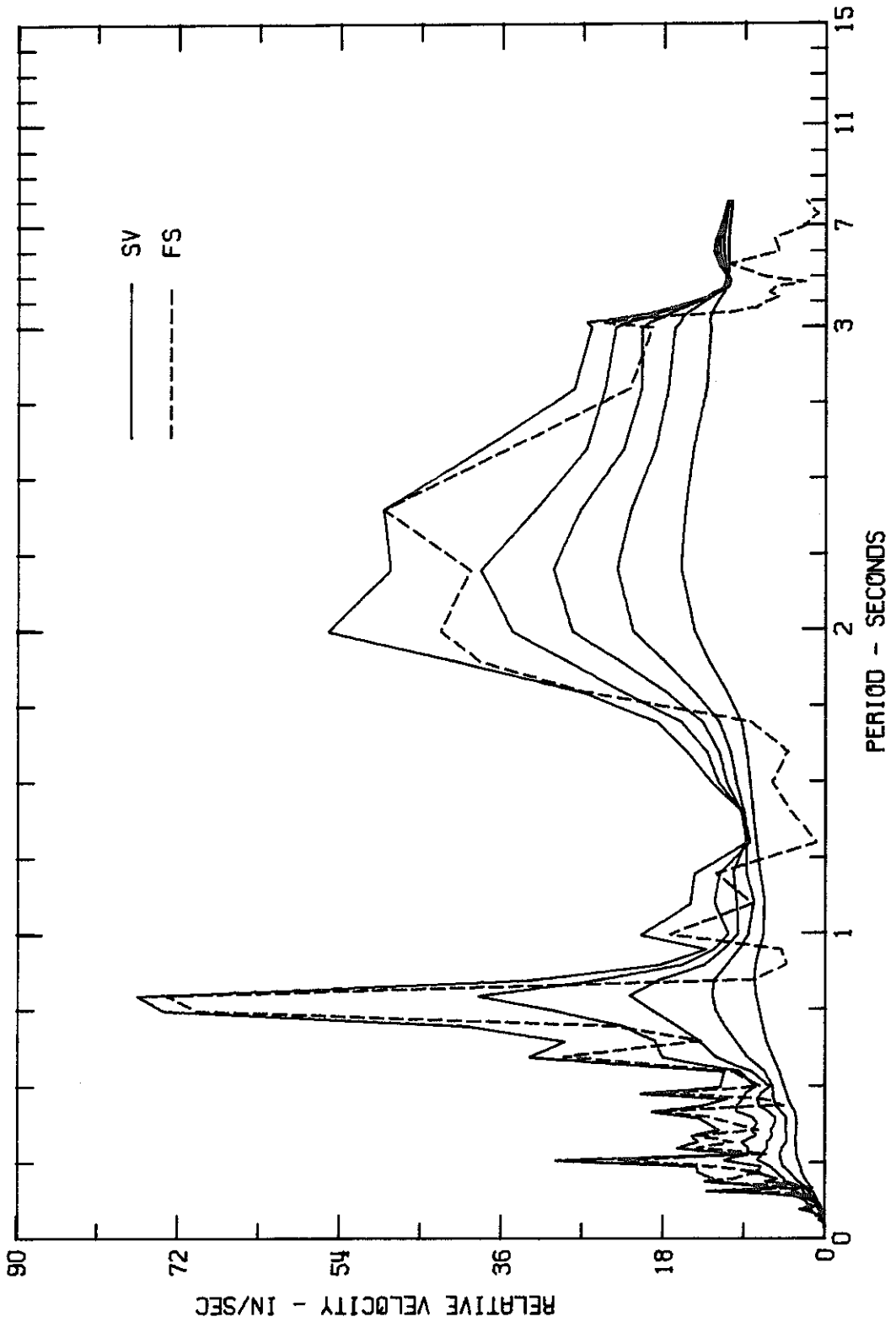
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PERCENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	340-4	254-5	827-4	162-3	399-3	222-5	565-4	142-3	349-3	222-5	477-4	142-3	350-3	222-5	473-4	142-3	345-3	222-5	457-4	142-3	349-3	222-5	457-4	142-3	349-3	222-5	457-4	142-3	345-3	222-5	457-4	142-3	349-3																
0.042	738-4	264-5	995-4	153-3	395-3	248-5	560-4	143-3	371-3	246-5	530-4	142-3	368-3	245-5	525-4	142-3	367-3	244-5	503-4	142-3	366-3	244-5	503-4	142-3	366-3	244-5	503-4	142-3	367-3	244-5	503-4	142-3	366-3																
0.044	122-3	317-5	147-3	167-3	452-3	274-5	633-4	144-3	391-3	271-5	606-4	143-3	387-3	269-5	581-4	142-3	384-3	269-5	551-4	142-3	384-3	269-5	551-4	142-3	384-3	269-5	551-4	142-3	384-3	269-5	551-4	142-3	384-3																
0.046	297-4	361-5	160-3	174-3	493-3	298-5	663-4	144-3	408-3	296-5	665-4	143-3	404-3	294-5	637-4	142-3	402-3	294-5	604-4	142-3	402-3	294-5	604-4	142-3	402-3	294-5	604-4	142-3	402-3	294-5	604-4	142-3	402-3																
0.048	424-4	392-5	159-3	174-3	513-3	322-5	809-4	142-3	421-3	321-5	731-4	142-3	421-3	321-5	697-4	142-3	420-3	321-5	660-4	142-3	420-3	321-5	660-4	142-3	420-3	321-5	660-4	142-3	420-3	321-5	660-4	142-3	420-3																
0.050	727-4	430-5	159-3	176-3	541-3	349-5	809-4	142-3	438-3	349-5	776-4	142-3	439-3	349-5	753-4	143-3	439-3	348-5	714-4	142-3	438-3	348-5	714-4	142-3	438-3	348-5	714-4	142-3	439-3	348-5	714-4	142-3	438-3																
0.055	188-3	583-5	269-3	197-3	666-3	433-5	128-3	146-3	495-3	429-5	110-3	145-3	490-3	426-5	959-4	144-3	486-3	423-5	858-4	143-3	483-3	423-5	858-4	143-3	483-3	423-5	858-4	143-3	486-3	423-5	858-4	143-3	483-3																
0.060	185-3	635-5	254-3	180-3	665-3	522-5	118-3	148-3	547-3	515-5	120-3	146-3	539-3	509-5	117-3	144-3	533-3	505-5	106-3	143-3	529-3	505-5	106-3	143-3	529-3	505-5	106-3	143-3	533-3	505-5	106-3	143-3	529-3																
0.065	188-3	703-5	246-3	170-3	679-3	622-5	177-3	150-3	599-3	604-5	159-3	146-3	584-3	596-5	145-3	144-3	576-3	592-5	129-3	143-3	573-3	592-5	129-3	143-3	573-3	592-5	129-3	143-3	576-3	592-5	129-3	143-3	573-3																
0.070	312-3	999-5	355-3	208-3	897-3	703-5	222-3	146-3	631-3	701-5	193-3	146-3	630-3	688-5	173-3	143-3	618-3	687-5	155-3	143-3	616-3	687-5	155-3	143-3	616-3	687-5	155-3	143-3	618-3	687-5	155-3	143-3	616-3																
0.075	440-3	125-4	647-3	228-3	105-2	881-5	286-3	160-3	738-3	821-5	211-3	149-3	688-3	787-5	198-3	143-3	659-3	789-5	184-3	143-3	661-3	789-5	184-3	143-3	661-3	789-5	184-3	143-3	659-3	789-5	184-3	143-3	661-3																
0.080	222-3	124-4	514-3	198-3	975-3	990-5	238-3	158-3	778-3	939-5	259-3	150-3	738-3	912-5	239-3	146-3	716-3	901-5	214-3	144-3	708-3	912-5	239-3	146-3	716-3	901-5	214-3	144-3	716-3	901-5	214-3	144-3	708-3																
0.085	678-3	178-4	885-3	178-3	131-2	110-4	412-3	155-3	813-3	108-4	335-3	153-3	802-3	915-3	285-3	148-3	776-3	915-3	250-3	145-3	755-3	915-3	250-3	145-3	755-3	915-3	250-3	145-3	776-3	915-3	250-3	145-3	755-3																
0.090	129-2	283-4	137-2	358-3	198-2	138-4	514-3	174-3	964-3	123-4	405-3	155-3	863-3	117-4	329-3	149-3	822-3	115-4	290-3	143-3	804-3	117-4	329-3	149-3	822-3	115-4	290-3	143-3	822-3	115-4	290-3	143-3	804-3																
0.095	336-3	257-4	123-2	291-3	170-2	147-4	534-3	166-3	973-3	133-4	405-3	151-3	885-3	131-4	374-3	148-3	867-3	129-4	330-3	146-3	853-3	131-4	374-3	148-3	867-3	129-4	330-3	146-3	867-3	129-4	330-3	146-3	853-3																
0.100	899-3	252-4	966-3	257-3	158-2	150-4	514-3	154-3	948-3	149-4	416-3	152-3	937-3	146-4	482-3	149-3	918-3	143-4	376-3	143-3	902-3	146-4	482-3	149-3	918-3	143-4	376-3	143-3	918-3	143-4	376-3	143-3	902-3																
0.110	965-3	311-4	121-2	263-3	178-2	213-4	794-3	180-3	121-2	193-4	667-3	164-3	110-2	182-4	514-3	155-3	104-2	174-4	484-3	149-3	997-3	182-4	514-3	155-3	104-2	174-4	484-3	149-3	997-3	182-4	514-3	155-3	104-2																
0.120	977-3	462-4	162-2	328-3	242-2	311-4	130-2	220-3	163-2	251-4	951-3	180-3	131-2	213-4	759-3	151-3	111-2	208-4	594-3	149-3	109-2	462-4	162-2	328-3	242-2	311-4	130-2	220-3	163-2	251-4	951-3	180-3	131-2																
0.130	910-3	744-4	297-2	450-3	359-2	380-4	120-2	230-3	184-2	308-4	105-2	186-3	149-2	267-4	925-3	161-3	129-2	247-4	728-3	150-3	119-2	744-4	297-2	450-3	359-2	380-4	120-2	230-3	184-2	308-4	105-2	186-3	149-2																
0.140	120-2	971-4	375-2	506-3	435-2	567-4	228-2	297-3	254-2	426-4	154-2	223-3	191-2	358-4	111-2	188-3	161-2	291-4	873-3	153-3	131-2	120-2	971-4	375-2	506-3	435-2	567-4	228-2	297-3	254-2	426-4	154-2	223-3																
0.150	651-2	225-3	858-2	102-2	944-2	112-3	401-2	512-3	420-2	771-4	233-2	311-3	303-2	580-4	141-2	222-3	201-2	342-4	104-2	159-3	143-2	225-3	858-2	102-2	944-2	112-3	401-2	512-3	420-2	771-4	233-2	311-3	303-2																
0.160	282-2	206-3	769-2	825-3	811-2	107-3	391-2	426-3	622-2	122-3	391-2	338-3	351-2	673-4	217-2	242-3	248-2	455-4	139-2	166-3	168-2	206-3	769-2	825-3	811-2	107-3	391-2	426-3	622-2	122-3	391-2	338-3	351-2																
0.170	138-1	384-3	139-1	135-2	142-1	138-3	483-2	488-3	511-2	950-4	316-2	338-3	351-2	673-4	217-2	242-3	248-2	455-4	139-2	166-3	168-2	138-1	384-3	139-1	135-2	142-1	138-3	483-2	488-3	511-2	950-4	316-2	338-3																
0.180	919-2	387-3	122-1	122-2	135-1	178-3	568-2	561-3	622-2	122-3	391-2	338-3	351-2	673-4	217-2	242-3	248-2	455-4	139-2	166-3	168-2	919-2	387-3	122-1	122-2	135-1	178-3	568-2	561-3	622-2	122-3	391-2	338-3	351-2															
0.190	651-2	214-3	653-2	606-3	707-2	160-3	497-2	455-3	531-2	128-3	384-2	363-3	423-2	874-4	261-2	251-3	289-2	559-4	153-2	163-3	184-2	651-2	214-3	653-2	606-3	707-2	160-3	497-2	455-3	531-2	128-3	384-2	363-3																
0.200	557-2	331-3	100-1	848-3	104-1	190-3	588-2	482-3	599-2	123-3	369-2	324-3	389-2	847-4	228-2	217-3	266-2	628-4	152-2	165-3	176-2	557-2	331-3	100-1	848-3	104-1	190-3	588-2	482-3	599-2	123-3	369-2	324-3	389-2															
0.210	368-2	181-3	468-2	383-3	518-2	145-3	355-2	306-3	416-2	120-3	291-2	256-3	345-2	975-4	230-2	211-3	278-2	832-4	174-2	179-3	237-2	368-2	181-3	468-2	383-3	518-2	145-3	355-2	306-3	416-2	120-3	291-2	256-3																
0.220	809-2	388-3	936-2	689-3	101-1	181-3	434-2	322-3	474-2	151-3	348-2	273-3	397-2	138-3	285-2	247-3	361-2	109-3	201-3	286-2	809-2	388-3	936-2	689-3	101-1	181-3	434-2	322-3	474-2	151-3	348-2	273-3	397-2																
0.230	226-1	992-3	233-1	150-2	239-1	421-3	862-2	636-3	101-1	258-3	507-2	389-3	624-2	189-3	348-2	286-3	456-2	136-3	239-2	216-3	286-2	226-1	992-3	233-1	150-2	239-1	421-3	862-2	636-3	101-1	258-3	507-2	389-3																
0.240	809-2	441-3	874-2	576-3	990-2	265-3	563-2	345-3	595-2	256-3	441-2	334-3	575-2	224-3	376-2	292-3	503-2	166-3	271-2	225-3	373-2	809-2	441-3	874-2	576-3	990-2	265-3	563-2	345-3	595-2	256-3	441-2	334-3	575-2															
0.250	988-2	681-3	128-1	774-3	142-1	442-3	818-2	499-3	925-2	338-3	588-2	382-3	709-2	265-3	421-2	304-3	555-2	195-3	297-2	232-3	409-2	988-2	681-3	128-1	774-3	142-1	442-3	818-2	499-3	925-2	338-3	588-2	382-3	709-2															
0.260	246-1	181-2	309-1	143-2	317-1	946-3	159-1	749-3	165-1	591-3	100-1	469-3	103-1	420-3	675-2	334-3	733-2	294-3	391-2	242-3	513-2	246-1	181-2	309-1	143-2	317-1	946-3	159-1	749-3	165-1	591-3	100-1	469-3																
0.270	443-2	814-3	146-1	813-3	159-1	522-3	884-2	524-3	102-1	412-3	664-2	413-3	810-2	315-3	487-2	323-3	619-2	227-3	319-2	239-3	443-2	814-3	146-1	813-3	159-1	522-3	884-2	524-3	102-1	412-3	664-2	413-3	810-2																
0.280	756-2	441-3	874-2	576-3	990-2	265-3	563-2	345-3	595-2	256-3	441-2	334-3	575-2	224-3	376-2	292-3	503-2	166-3	271-2	225-3	756-2	441-3	874-2	576-3	990-2	265-3	563-2	345-3	595-2	256-3	441-2	334-3	575-2																
0.290	988-2	681-3	128-1	774-3	142-1	442-3	818-2	499-3	925-2	338-3	588-2	382-3	709-2	265-3	421-2	304-3	555-2	195-3	297-2	232-3	988-2	681-3	128-1	774-3	142-1	442-3	818-2	499-3	925-2	338-3	588-2	382-3	709-2																

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	223-1	608-2	502-1	110-2	509-1	376-2	312-1	687-3	315-1	263-2	215-1	479-3	220-1	175-2	136-1	324-3	147-1	120-2	838-2	229-3	100-1
0.80	623-1	836-2	635-1	133-2	656-1	378-2	297-1	605-3	296-1	252-2	202-1	406-3	198-1	169-2	136-1	275-3	133-1	127-2	862-2	215-3	100-1
0.85	180-1	502-2	370-1	711-3	371-1	308-2	226-1	436-3	226-1	213-2	174-1	304-3	157-1	162-2	131-1	233-3	119-1	132-2	887-2	199-3	981-2
0.90	124-1	357-2	245-1	451-3	249-1	239-2	166-1	302-3	166-1	184-2	126-1	234-3	128-1	152-2	114-1	196-3	106-1	137-2	850-2	184-3	962-2
0.95	194-1	405-2	245-1	459-3	268-1	287-2	184-1	325-3	190-1	216-2	144-1	247-3	143-1	169-2	113-1	195-3	111-1	143-2	882-2	172-3	948-2
1.00	157-1	474-2	297-1	485-3	298-1	324-2	205-1	332-3	203-1	222-2	147-1	228-3	135-1	171-2	110-1	178-3	107-1	147-2	876-2	160-3	925-2
1.10	119-1	358-2	212-1	303-3	204-1	257-2	155-1	217-3	147-1	201-2	129-1	171-3	115-1	172-2	108-1	148-3	983-2	157-2	855-2	141-3	891-2
1.20	891-2	334-2	145-1	237-3	175-1	247-2	121-1	176-3	123-1	210-2	106-1	150-3	110-1	178-2	944-2	130-3	935-2	176-2	878-2	133-3	925-2
1.30	638-2	286-2	127-1	173-3	138-1	233-2	115-1	141-3	113-1	209-2	106-1	127-3	101-1	196-2	103-1	120-3	944-2	208-2	953-2	133-3	100-1
1.40	385-2	292-2	118-1	152-3	131-1	276-2	118-1	144-3	124-1	265-2	123-1	138-3	119-1	250-2	119-1	132-3	112-1	252-2	105-1	138-3	113-1
1.50	860-2	480-2	195-1	218-3	201-1	414-2	171-1	188-3	173-1	367-2	154-1	167-3	154-1	330-2	139-1	150-3	138-1	306-2	117-1	147-3	128-1
1.60	820-2	691-2	246-1	276-3	271-1	587-2	215-1	234-3	230-1	512-2	192-1	205-3	201-1	447-2	169-1	180-3	175-1	372-2	134-1	156-3	146-1
1.70	181-2	647-2	229-1	229-3	239-1	645-2	219-1	228-3	238-1	646-2	221-1	229-3	238-1	586-2	202-1	210-3	216-1	457-2	150-1	170-3	169-1
1.80	188-1	117-1	386-1	371-3	410-1	105-1	347-1	332-3	367-1	932-2	303-1	295-3	325-1	772-2	244-1	247-3	269-1	550-2	163-1	184-3	192-1
1.90	637-1	275-1	863-1	781-3	911-1	199-1	608-1	564-3	658-1	141-1	432-1	403-3	668-1	995-2	293-1	286-3	329-1	643-2	179-1	194-3	212-1
2.00	187 0	642-1	199 0	164-2	201 0	357-1	110 0	914-3	112 0	211-1	646-1	543-3	644-1	121-1	271-1	317-3	382-1	719-2	200-1	198-3	225-1
2.20	558-1	362-1	107 0	765-3	103 0	272-1	816-1	577-3	779-1	196-1	594-1	417-3	560-1	133-1	402-1	286-3	379-1	793-2	239-1	183-3	222-1
2.40	544-1	263-1	714-1	467-3	659-1	188-1	518-1	334-3	492-1	158-1	453-1	282-3	414-1	120-1	360-1	218-3	315-1	788-2	240-1	154-3	206-1
2.60	448-1	279-1	711-1	423-3	676-1	187-1	546-1	314-3	502-1	152-1	399-1	231-3	367-1	109-1	313-1	169-3	263-1	760-2	241-1	127-3	183-1
2.80	428-1	240-1	580-1	313-3	536-1	187-1	464-1	245-3	421-1	142-1	360-1	187-3	319-1	105-1	293-1	141-3	236-1	734-2	238-1	107-3	164-1
3.00	223-1	149-1	364-1	170-3	313-1	136-1	345-1	155-3	286-1	119-1	320-1	137-3	251-1	982-2	284-1	114-3	205-1	754-2	231-1	936-4	157-1
3.20	158-1	145-1	352-1	144-3	284-1	130-1	331-1	130-3	255-1	118-1	304-1	119-3	232-1	102-1	269-1	104-3	200-1	778-2	222-1	843-4	152-1
3.40	182-1	154-1	325-1	136-3	285-1	141-1	306-1	125-3	261-1	126-1	287-1	112-3	233-1	106-1	262-1	971-4	196-1	790-2	225-1	765-4	146-1
3.60	256-1	183-1	354-1	144-3	319-1	144-1	311-1	114-3	252-1	127-1	290-1	101-3	222-1	102-1	263-1	873-4	185-1	784-2	225-1	696-4	136-1
3.80	205-1	175-1	359-1	124-3	290-1	140-1	301-1	995-4	232-1	122-1	283-1	112-3	202-1	106-1	258-1	759-4	169-1	800-2	221-1	622-4	132-1
4.00	163-1	158-1	313-1	101-3	249-1	127-1	283-1	819-4	201-1	118-1	269-1	762-4	185-1	105-1	248-1	690-4	165-1	855-2	216-1	599-4	134-1
4.20	155-1	148-1	273-1	859-4	221-1	134-1	263-1	782-4	201-1	125-1	252-1	734-4	187-1	111-1	235-1	668-4	167-1	902-2	208-1	578-4	134-1
4.40	124-1	148-1	250-1	783-4	211-1	141-1	244-1	749-4	202-1	131-1	234-1	704-4	188-1	117-1	221-1	642-4	167-1	939-2	198-1	554-4	134-1
4.60	155-1	156-1	240-1	755-4	213-1	148-1	223-1	718-4	202-1	137-1	215-1	672-4	187-1	121-1	204-1	613-4	165-1	966-2	188-1	529-4	132-1
4.80	160-1	163-1	262-1	726-4	214-1	154-1	227-1	686-4	202-1	141-1	216-1	638-4	185-1	124-1	201-1	579-4	162-1	982-2	176-1	503-4	128-1
5.00	138-1	168-1	247-1	690-4	211-1	157-1	235-1	647-4	198-1	144-1	223-1	598-4	180-1	125-1	205-1	542-4	157-1	986-2	178-1	476-4	123-1
5.50	187-1	178-1	267-1	602-4	203-1	155-1	243-1	525-4	177-1	136-1	228-1	470-4	155-1	118-1	209-1	432-4	135-1	944-2	181-1	399-4	107-1
6.00	116-1	155-1	260-1	442-4	163-1	128-1	227-1	364-4	134-1	110-1	216-1	321-4	115-1	995-2	200-1	314-4	104-1	842-2	177-1	321-4	882-2
6.50	155-1	167-1	213-1	406-4	162-1	139-1	203-1	339-4	135-1	120-1	192-1	296-4	116-1	104-1	183-1	261-4	100-1	818-2	169-1	251-4	790-2
7.00	112-1	141-1	200-1	296-4	127-1	133-1	176-1	279-4	119-1	122-1	169-1	261-4	110-1	107-1	164-1	237-4	965-2	858-2	158-1	203-4	770-2
7.50	573-2	131-1	166-1	238-4	110-1	125-1	157-1	229-4	105-1	117-1	148-1	218-4	980-2	105-1	146-1	206-4	880-2	866-2	147-1	186-4	725-2
8.00	574-2	116-1	162-1	186-4	916-2	123-1	156-1	181-4	888-2	107-1	147-1	178-4	846-2	995-2	136-1	175-4	781-2	852-2	138-1	168-4	669-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP SOON
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

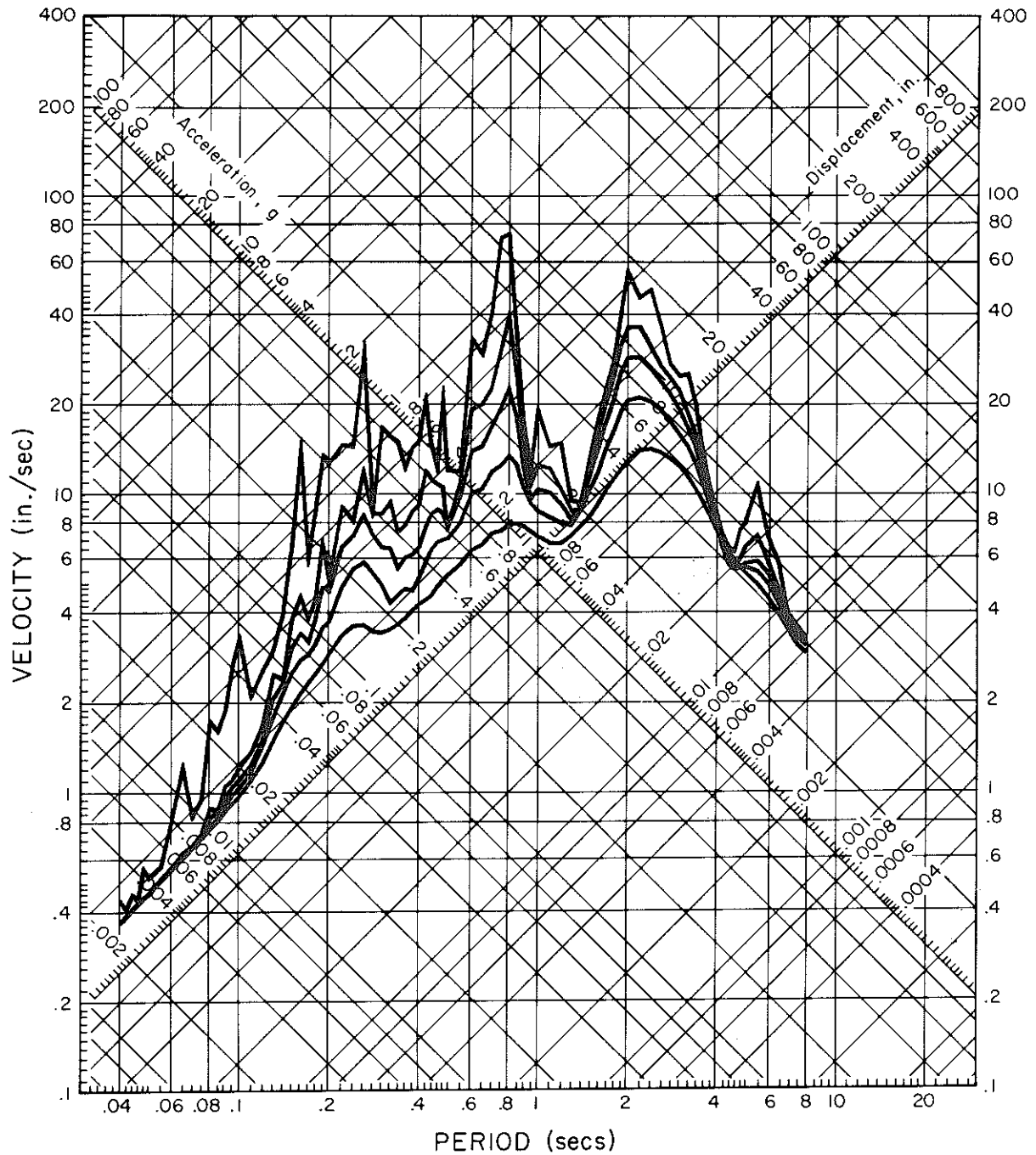


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP 500W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP SOGW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

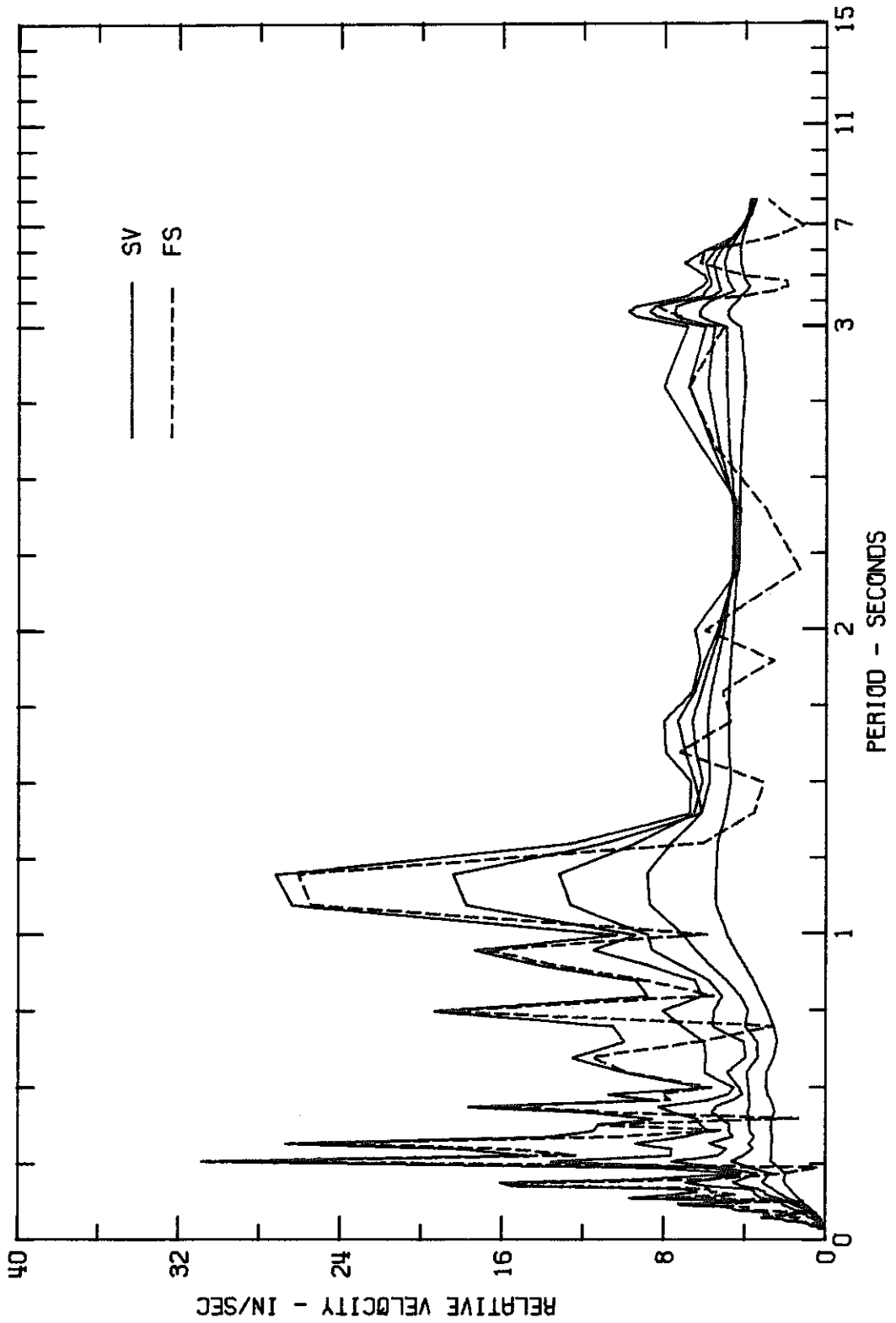
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
					DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT
																	DAMPING = 20 PER CENT
0.75	700-1	887-2	737-1	161-2	743-1	365-2	302-1	666-3	306-1	235-2	193-1	431-3	197-1	150-2	122-1	279-3	125-1
0.80	732-1	969-2	766-1	154-2	761-1	510-2	386-1	815-3	400-1	291-2	218-1	468-3	228-1	173-2	126-1	281-3	136-1
0.85	780-2	462-2	328-1	654-3	341-1	344-2	254-1	486-3	254-1	247-2	184-1	352-3	182-1	170-2	123-1	246-3	126-1
0.90	432-2	253-2	182-1	319-3	176-1	206-2	157-1	261-3	144-1	177-2	133-1	225-3	123-1	150-2	109-1	193-3	105-1
0.95	498-2	185-2	131-1	210-3	122-1	163-2	123-1	185-3	108-1	146-2	113-1	168-3	972-2	141-2	960-2	162-3	933-2
1.00	174-1	309-2	205-1	316-3	194-1	200-2	138-1	194-1	120-3	166-2	977-2	171-3	104-1	141-2	860-2	147-3	888-2
1.10	812-2	256-2	150-1	216-3	146-1	215-2	123-1	182-3	122-1	178-2	992-2	151-3	101-1	147-2	794-2	128-3	841-2
1.20	122-1	286-2	145-1	203-3	149-1	199-2	117-1	142-3	104-1	177-2	103-1	126-3	930-2	153-2	888-2	111-3	804-2
1.30	997-3	198-2	875-2	119-3	957-2	183-2	845-2	111-3	886-2	172-2	886-2	104-3	831-2	163-2	875-2	101-3	791-2
1.40	377-2	209-2	917-2	109-3	941-2	198-2	933-2	103-3	890-2	205-2	939-2	108-3	924-2	201-2	914-2	107-3	903-2
1.50	594-2	323-2	128-1	146-3	135-1	303-2	119-1	138-3	127-1	282-2	110-1	128-3	118-1	252-2	100-1	117-3	105-1
1.60	422-2	462-2	154-1	184-3	181-1	417-2	132-1	166-3	163-1	366-2	119-1	147-3	144-1	307-2	106-1	125-3	120-1
1.70	840-2	619-2	188-1	219-3	229-1	557-2	161-1	197-3	206-1	482-2	138-1	171-3	178-1	392-2	119-1	141-3	145-1
1.80	270-1	814-2	271-1	257-3	284-1	719-2	226-1	227-3	251-1	605-2	178-1	191-3	211-1	476-2	147-1	152-3	166-1
1.90	385-1	124-1	409-1	353-3	412-1	975-2	287-1	276-3	322-1	785-2	228-1	223-3	259-1	581-2	180-1	167-3	192-1
2.00	428-1	181-1	553-1	463-3	569-1	116-1	349-1	299-3	367-1	922-2	283-1	237-3	289-1	665-2	215-1	173-3	209-1
2.20	395-1	161-1	484-1	342-3	462-1	128-1	384-1	272-3	367-1	101-1	303-1	215-3	289-1	748-2	233-1	160-3	213-1
2.40	492-1	188-1	492-1	334-3	492-1	120-1	322-1	213-3	314-1	101-1	272-1	180-3	265-1	788-2	216-1	142-3	206-1
2.60	352-1	152-1	381-1	231-3	369-1	111-1	265-1	169-3	269-1	986-2	224-1	150-3	238-1	799-2	189-1	123-3	193-1
2.80	217-1	121-1	279-1	158-3	273-1	109-1	244-1	142-3	245-1	963-2	205-1	126-3	216-1	785-2	174-1	105-3	176-1
3.00	193-1	120-1	260-1	136-3	251-1	106-1	233-1	120-3	222-1	918-2	205-1	105-3	192-1	762-2	167-1	895-4	159-1
3.20	247-1	130-1	265-1	130-3	255-1	957-2	221-1	956-4	187-1	853-2	195-1	860-4	167-1	740-2	162-1	770-4	145-1
3.40	200-1	110-1	226-1	974-4	203-1	858-2	197-1	760-4	158-1	784-2	181-1	700-4	145-1	693-2	154-1	523-4	109-1
3.60	108-1	821-2	194-1	648-4	143-1	747-2	184-1	590-4	130-1	694-2	171-1	551-4	121-1	630-2	145-1	422-4	932-2
3.80	767-2	652-2	173-1	461-4	107-1	624-2	167-1	442-4	103-1	596-2	158-1	426-4	986-2	563-2	145-1	287-4	793-2
4.00	682-2	560-2	150-1	358-4	881-2	535-2	437-2	343-4	840-2	506-2	143-1	326-4	796-2	505-2	136-1	343-4	690-2
4.20	524-2	493-2	133-1	285-4	737-2	462-2	129-1	268-4	691-2	439-2	129-1	258-4	657-2	461-2	127-1	287-4	690-2
4.40	635-2	464-2	124-1	245-4	663-2	437-2	119-1	231-4	624-2	407-2	118-1	217-4	581-2	437-2	119-1	251-4	625-2
4.60	568-2	470-2	112-1	227-4	642-2	418-2	109-1	202-4	571-2	408-2	112-1	200-4	558-2	432-2	114-1	229-4	590-2
4.80	240-2	586-2	107-1	260-4	767-2	461-2	106-1	205-4	603-2	433-2	109-1	195-4	567-2	440-2	112-1	215-4	576-2
5.00	668-2	645-2	110-1	264-4	811-2	533-2	108-1	218-4	670-2	466-2	110-1	194-4	585-2	454-2	111-1	205-4	571-2
5.50	108-1	951-2	120-1	321-4	108-1	642-2	118-1	217-4	734-2	522-2	115-1	178-4	596-2	481-2	113-1	180-4	550-2
6.00	523-2	684-2	125-1	194-4	716-2	562-2	122-1	160-4	588-2	515-2	119-1	148-4	539-2	475-2	114-1	151-4	497-2
6.50	584-2	608-2	123-1	147-4	588-2	495-2	121-1	120-4	479-2	475-2	118-1	116-4	459-2	446-2	114-1	122-4	431-2
7.00	248-2	442-2	117-1	923-5	397-2	436-2	116-1	912-5	392-2	428-2	114-1	910-5	384-2	414-2	112-1	103-4	371-2
7.50	955-3	430-2	112-1	783-5	360-2	422-2	112-1	774-5	354-2	411-2	111-1	802-5	344-2	395-2	109-1	934-5	331-2
8.00	220-2	420-2	109-1	672-5	330-2	416-2	108-1	670-5	326-2	409-2	108-1	707-5	321-2	396-2	107-1	842-5	311-2

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

1111122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP DOWN

DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

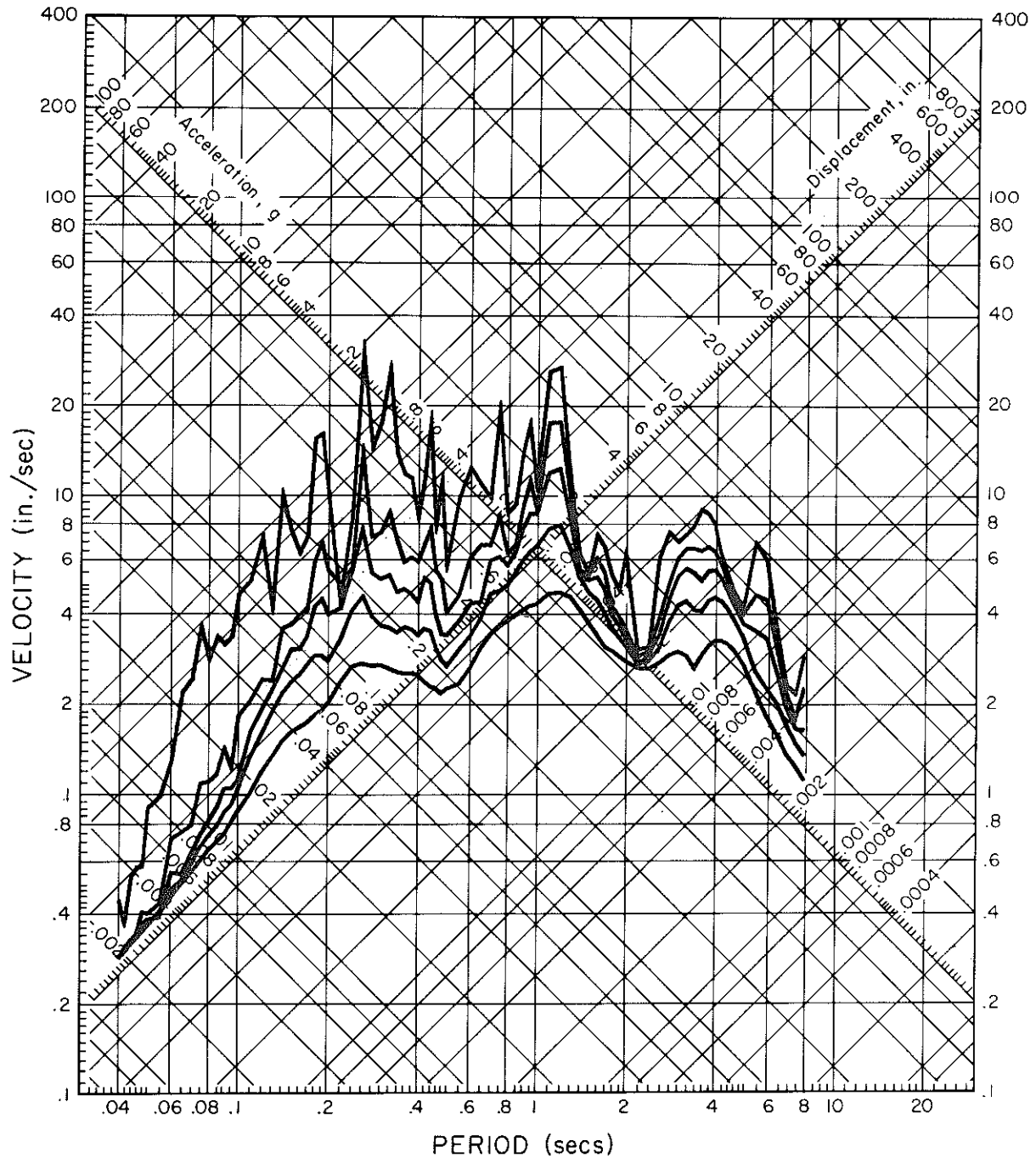


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIH122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

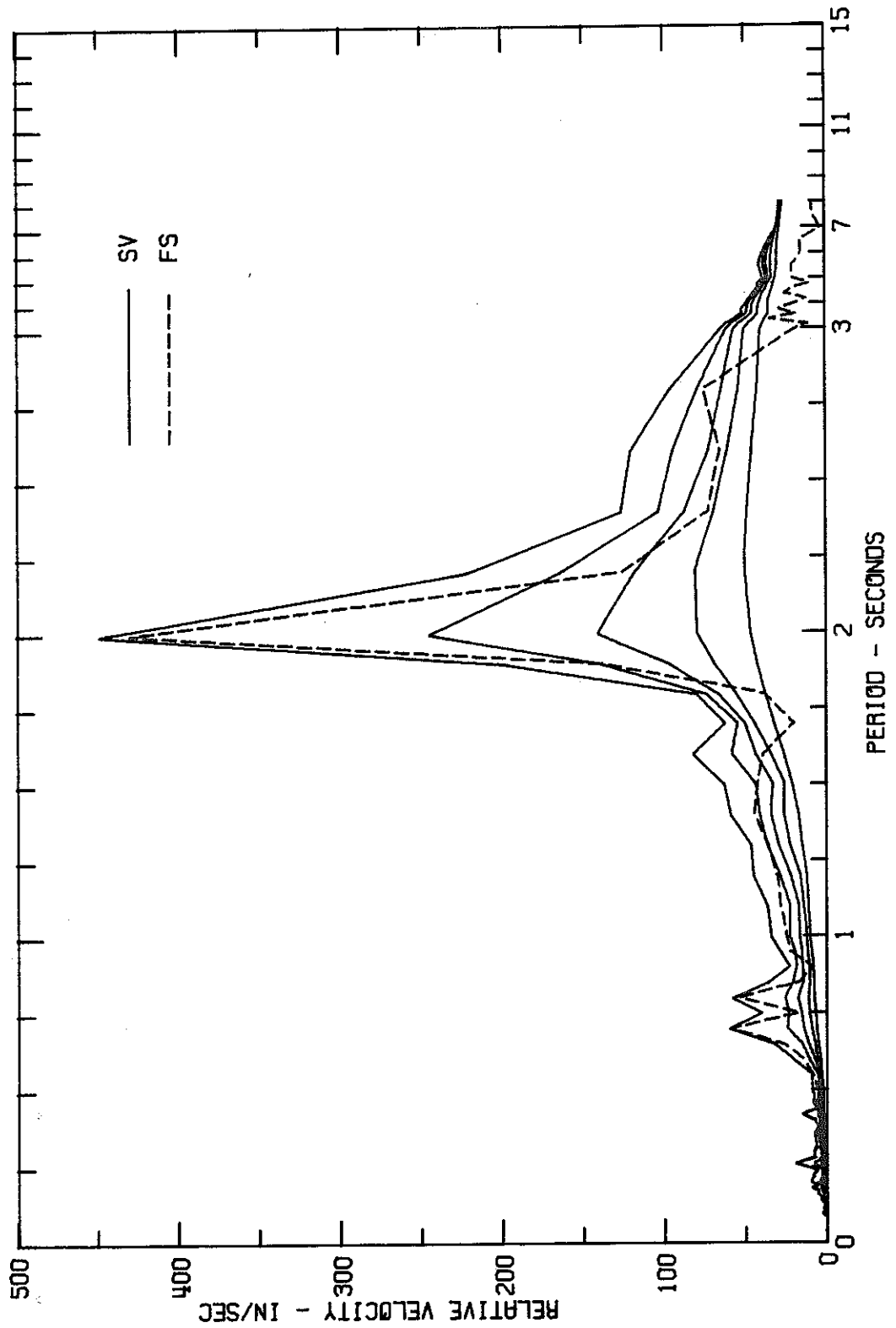
DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PERCENT										DAMPING = 20 PER CENT											
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV										
0.040	278-3	281-5	298-3	180-3	442-3	180-5	956-4	115-3	283-3	180-5	967-4	115-3	283-3	181-5	897-4	115-3	285-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3	180-5	829-4	115-3	283-3						
0.042	314-4	248-5	187-3	144-3	372-3	207-5	127-3	120-3	310-3	201-5	106-3	117-3	301-3	201-5	974-4	116-3	301-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3	199-5	918-4	116-3	299-3						
0.044	123-3	370-5	281-3	195-3	529-3	228-5	118-3	120-3	325-3	222-5	108-3	117-3	317-3	222-5	106-3	117-3	317-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3	220-5	101-3	117-3	315-3		
0.046	356-3	417-5	402-3	202-3	570-3	250-5	143-3	121-3	342-3	247-5	126-3	119-3	338-3	245-5	120-3	118-3	335-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3	242-5	111-3	117-3	331-3		
0.048	212-3	438-5	268-3	194-3	573-3	309-5	174-3	137-3	405-3	280-5	140-3	124-3	367-3	270-5	133-3	120-3	353-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3	265-5	122-3	118-3	348-3		
0.050	495-3	717-5	723-3	293-3	901-3	317-5	176-3	130-3	399-3	303-5	165-3	124-3	381-3	292-5	148-3	119-3	368-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3	290-5	132-3	119-3	364-3		
0.055	291-3	862-5	842-3	291-3	985-3	377-5	306-3	128-3	431-3	340-5	212-3	115-3	388-3	352-5	184-3	119-3	403-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3	356-5	157-3	121-3	407-3		
0.060	110-2	124-4	111-2	352-3	129-2	678-5	397-3	193-3	710-3	523-5	307-3	148-3	548-3	458-5	234-3	130-3	460-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3	435-5	188-3	124-3	456-3		
0.065	170-2	228-4	202-2	552-3	220-2	771-5	525-3	186-3	746-3	558-5	362-3	135-3	540-3	537-5	260-3	130-3	519-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3	520-5	220-3	127-3	503-3		
0.070	143-2	271-4	213-2	566-3	243-2	876-5	589-3	184-3	786-3	710-5	367-3	147-3	637-3	655-5	285-3	138-3	588-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3	611-5	263-3	130-3	549-3		
0.075	130-2	433-4	321-2	788-3	363-2	129-4	860-3	235-3	108-2	877-5	498-3	159-3	735-3	797-5	351-3	144-3	668-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3	719-5	317-3	133-3	602-3		
0.080	200-2	357-4	261-2	571-3	281-2	139-4	890-3	224-3	109-2	104-4	637-3	167-3	821-3	929-5	435-3	150-3	730-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3	831-5	376-3	134-3	653-3		
0.085	248-2	457-4	307-2	646-3	337-2	156-4	984-3	223-3	116-2	121-4	655-3	174-3	901-3	106-4	527-3	152-3	785-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3	941-5	435-3	134-3	695-3		
0.090	987-3	452-4	280-2	571-3	315-2	203-4	118-2	257-3	142-2	149-4	800-3	188-3	104-2	124-4	635-3	158-3	869-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	105-4	515-3	734-3	
0.095	212-2	509-4	319-2	577-3	336-2	184-4	935-3	209-3	122-2	158-4	845-3	181-3	104-2	139-4	746-3	161-3	924-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3	122-4	592-3	143-3	807-3		
0.100	390-2	741-4	445-2	758-3	465-2	291-4	152-2	297-3	182-2	177-4	891-3	180-3	111-2	164-4	852-3	169-3	103-2	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3	140-4	682-3	146-3	879-3		
0.110	383-2	910-4	487-2	769-3	519-2	361-4	188-2	305-3	206-2	283-4	135-2	244-3	162-2	234-4	110-2	199-3	134-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3
0.120	737-2	139-3	731-2	994-3	732-2	462-4	217-2	327-3	241-2	368-4	161-2	263-3	193-2	305-4	138-2	224-3	159-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3	159-3	101-2	177-4	862-3
0.130	113-2	875-4	366-2	529-3	423-2	495-4	216-2	298-3	239-2	466-4	192-2	281-3	225-2	393-4	162-2	240-3	190-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2	277-4	122-2	170-3	133-2		
0.140	788-2	227-3	978-2	118-2	101-1	803-4	320-2	421-3	360-2	585-4	245-2	306-3	262-2	485-4	193-2	254-3	217-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2	335-4	139-2	185-3	150-2		
0.150	448-2																																																		

111H122 71.083.0 900 SOUTH FREMONT AVENUE, 6TH FLOOR, ALHAMBRA, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.75	191-1	232-2	194-1	422-3	194-1	102-2	805-2	186-3	857-2	745-3	553-2	136-3	624-2	570-3	387-2	106-3	477-2
0.80	556-2	111-2	881-2	178-3	877-2	822-3	612-2	131-3	645-2	739-3	514-2	118-3	580-2	637-3	429-2	103-3	500-2
0.85	900-2	127-2	940-2	180-3	944-2	927-3	650-2	131-3	685-2	885-3	580-2	125-3	654-2	743-3	494-2	107-3	549-2
0.90	134-1	203-2	141-1	257-3	142-1	132-2	882-2	167-3	928-2	112-2	720-2	142-3	783-2	872-3	578-2	112-3	609-2
0.95	168-1	267-2	174-1	303-3	176-1	171-2	115-1	194-3	113-1	133-2	866-2	151-3	880-2	987-3	651-2	114-3	653-2
1.00	584-2	176-2	103-1	180-3	111-1	144-2	942-2	147-3	906-2	138-2	884-2	142-3	873-2	108-2	708-2	112-3	681-2
1.10	255-1	461-2	264-1	389-3	263-1	310-2	178-1	262-3	177-1	210-2	126-1	179-3	120-1	136-2	877-2	117-3	779-2
1.20	261-1	517-2	272-1	367-3	270-1	338-2	185-1	240-3	177-1	236-2	132-1	169-3	124-1	152-2	889-2	111-3	800-2
1.30	608-2	239-2	125-1	145-3	115-1	207-2	109-1	126-3	100-1	174-2	942-2	106-3	844-2	138-2	765-2	859-4	667-2
1.40	358-2	140-2	674-2	735-4	632-2	120-2	616-2	629-4	535-2	123-2	654-2	650-4	556-2	118-2	618-2	633-4	530-2
1.50	308-2	131-2	671-2	595-4	549-2	128-2	653-2	584-4	538-2	123-2	615-2	566-4	518-2	113-2	577-2	528-4	474-2
1.60	725-2	189-2	798-2	758-4	745-2	157-2	703-2	629-4	617-2	135-2	651-2	546-4	532-2	113-2	586-2	468-4	447-2
1.70	472-2	181-2	807-2	643-4	672-2	148-2	738-2	527-4	549-2	130-2	667-2	466-4	481-2	109-2	589-2	401-4	404-2
1.80	514-2	153-2	660-2	484-4	535-2	121-2	648-2	384-4	424-2	113-2	619-2	362-4	356-2	102-2	568-2	336-4	358-2
1.90	259-2	145-2	627-2	413-4	482-2	119-2	602-2	338-4	355-2	111-2	574-2	317-4	368-2	101-2	531-2	301-4	336-2
2.00	600-2	205-2	655-2	525-4	645-2	114-2	536-2	291-4	358-2	106-2	526-2	274-4	334-2	996-3	507-2	266-4	313-2
2.20	135-2	107-2	434-2	226-4	306-2	101-2	448-2	215-4	291-2	946-3	459-2	201-4	270-2	962-3	463-2	213-4	274-2
2.40	303-2	119-2	427-2	211-4	311-2	115-2	445-2	205-4	301-2	113-2	458-2	202-4	296-2	107-2	459-2	196-4	280-2
2.60	550-2	256-2	621-2	388-4	620-2	162-2	566-2	246-4	509-2	200-2	533-2	217-4	344-2	129-2	487-2	206-4	313-2
2.80	683-2	339-2	807-2	442-4	760-2	227-2	680-2	296-4	509-2	200-2	533-2	217-4	344-2	129-2	487-2	206-4	313-2
3.00	508-2	336-2	684-2	381-4	703-2	296-2	597-2	337-4	621-2	256-2	552-2	293-4	537-2	206-2	498-2	241-4	432-2
3.20	720-2	379-2	825-2	379-4	745-2	341-2	736-2	341-4	669-2	290-2	669-2	293-4	571-2	226-2	580-2	235-4	444-2
3.40	724-2	431-2	946-2	381-4	797-2	362-2	842-2	321-4	669-2	298-2	746-2	267-4	551-2	224-2	629-2	209-4	415-2
3.60	797-2	520-2	982-2	410-4	908-2	376-2	876-2	297-4	656-2	297-2	754-2	236-4	518-2	236-2	629-2	194-4	412-2
3.80	834-2	528-2	945-2	374-4	874-2	410-2	855-2	290-4	678-2	338-2	746-2	241-4	560-2	270-2	613-2	196-4	446-2
4.00	806-2	513-2	806-2	328-4	806-2	413-2	729-2	264-4	649-2	358-2	667-2	230-4	562-2	290-2	576-2	192-4	457-2
4.20	402-2	425-2	639-2	246-4	637-2	395-2	612-2	229-4	591-2	353-2	564-2	208-4	529-2	297-2	518-2	179-4	445-2
4.40	262-2	382-2	652-2	202-4	546-2	365-2	600-2	193-4	521-2	338-2	527-2	182-4	482-2	294-2	472-2	148-4	390-2
4.60	193-2	354-2	613-2	171-4	484-2	342-2	577-2	165-4	467-2	321-2	533-2	159-4	439-2	286-2	472-2	164-4	420-2
4.80	201-2	343-2	595-2	152-4	449-2	329-2	575-2	146-4	431-2	309-2	542-2	140-4	404-2	276-2	488-2	133-4	361-2
5.00	406-2	340-2	607-2	139-4	428-2	320-2	585-2	131-4	403-2	297-2	551-2	124-4	373-2	264-2	499-2	119-4	332-2
5.50	630-2	612-2	704-2	207-4	699-2	407-2	600-2	138-4	465-2	309-2	562-2	105-4	353-2	225-2	509-2	872-5	257-2
6.00	600-2	574-2	600-2	163-4	601-2	427-2	552-2	121-4	447-2	317-2	526-2	909-5	332-2	215-2	489-2	641-5	225-2
6.50	276-2	369-2	471-2	894-5	357-2	319-2	469-2	773-5	308-2	265-2	464-2	646-5	256-2	208-2	450-2	528-5	201-2
7.00	113-2	258-2	416-2	540-5	232-2	243-2	404-2	507-5	218-2	217-2	408-2	459-5	195-2	190-2	412-2	441-5	170-2
7.50	216-2	260-2	373-2	474-5	218-2	214-2	369-2	391-5	180-2	198-2	375-2	364-5	166-2	178-2	386-2	375-5	149-2
8.00	291-2	371-2	350-2	593-5	291-2	288-2	354-2	460-5	226-2	210-2	362-2	337-5	164-2	173-2	372-2	315-5	136-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

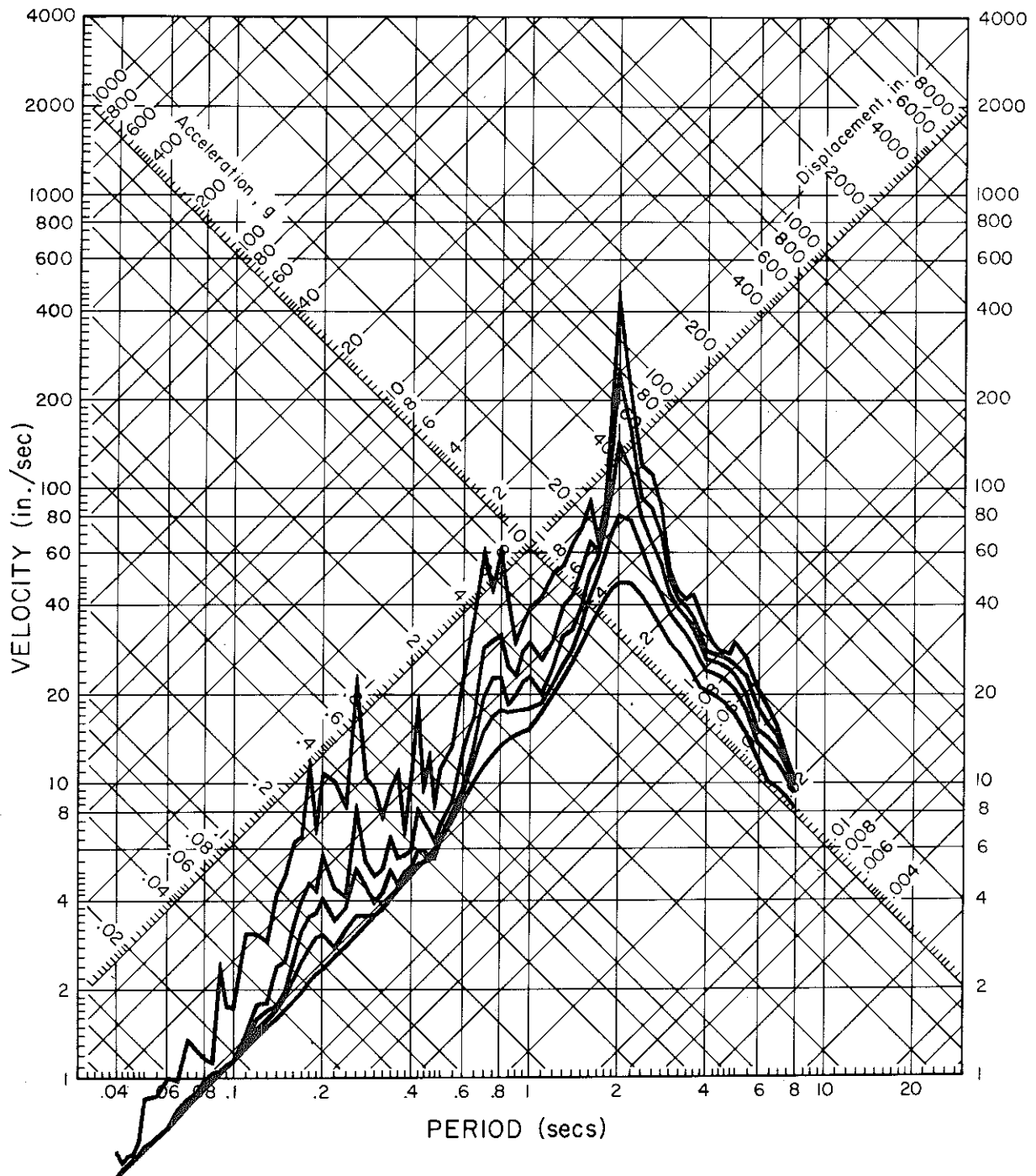


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PERCENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	125-3	356-5	172-3	228-3	560-3	292-5	551-4	186-3	459-3	292-5	374-4	187-3	460-3	292-5	317-4	186-3	458-3	290-5	291-4	186-3	456-3	290-5	291-4	186-3	456-3	290-5	291-4	186-3	458-3	290-5	291-4	186-3	456-3																
0.042	901-4	343-5	119-3	199-3	514-3	326-5	420-4	189-3	489-3	324-5	356-4	187-3	484-3	322-5	339-4	186-3	482-3	320-5	321-4	186-3	479-3	320-5	321-4	186-3	479-3	320-5	321-4	186-3	482-3	320-5	321-4	186-3	479-3																
0.044	473-4	380-5	100-3	201-3	543-3	350-5	442-4	188-3	509-3	350-5	390-4	187-3	507-3	353-5	376-4	187-3	505-3	352-5	357-4	186-3	502-3	352-5	357-4	186-3	502-3	352-5	357-4	186-3	505-3	352-5	357-4	186-3	502-3																
0.046	823-4	404-5	957-4	195-3	552-3	388-5	519-4	188-3	531-3	387-5	426-4	187-3	529-3	386-5	419-4	186-3	527-3	384-5	398-4	186-3	525-3	384-5	398-4	186-3	525-3	384-5	398-4	186-3	527-3	384-5	398-4	186-3	525-3																
0.048	995-4	470-5	125-3	208-3	615-3	420-5	683-4	186-3	550-3	421-5	501-4	187-3	552-3	420-5	471-4	186-3	550-3	418-5	444-4	186-3	547-3	418-5	444-4	186-3	547-3	418-5	444-4	186-3	550-3	418-5	444-4	186-3	547-3																
0.050	288-3	682-5	319-3	279-3	857-3	467-5	717-4	191-3	587-3	458-5	570-4	187-3	576-3	456-5	526-4	186-3	573-3	454-5	491-4	185-3	570-3	454-5	491-4	185-3	570-3	454-5	491-4	185-3	573-3	454-5	491-4	185-3	570-3																
0.055	254-3	767-5	323-3	259-3	877-3	549-5	105-3	185-3	627-3	553-5	822-4	187-3	632-3	549-5	677-4	185-3	628-3	548-5	619-4	185-3	626-3	548-5	619-4	185-3	626-3	548-5	619-4	185-3	627-3	548-5	619-4	185-3	626-3																
0.060	424-3	963-5	481-3	273-3	100-2	650-5	128-3	184-3	680-3	649-5	101-3	184-3	680-3	649-5	858-4	183-3	677-3	652-5	760-4	185-3	683-3	652-5	760-4	185-3	683-3	652-5	760-4	185-3	677-3	652-5	760-4	185-3	683-3																
0.065	268-3	101-4	389-3	246-3	985-3	818-5	174-3	198-3	791-3	784-5	137-3	189-3	758-3	770-5	108-3	186-3	745-3	768-5	935-4	186-3	742-3	768-5	935-4	186-3	742-3	768-5	935-4	186-3	745-3	768-5	935-4	186-3	742-3																
0.070	606-3	151-4	650-3	315-3	135-2	952-5	187-3	198-3	854-3	921-5	139-3	192-3	827-3	907-5	118-3	189-3	814-3	896-5	112-3	167-3	804-3	896-5	112-3	167-3	804-3	896-5	112-3	167-3	814-3	896-5	112-3	167-3	804-3																
0.075	524-3	149-4	764-3	463-3	117-2	120-4	211-3	195-3	899-3	107-4	161-3	194-3	896-3	105-4	150-3	191-3	881-3	103-4	134-3	188-3	866-3	103-4	134-3	188-3	866-3	103-4	134-3	188-3	891-3	103-4	134-3	188-3	866-3																
0.080	470-4	149-4	764-3	463-3	117-2	120-4	211-3	195-3	899-3	107-4	161-3	194-3	896-3	105-4	150-3	191-3	881-3	103-4	134-3	188-3	866-3	103-4	134-3	188-3	866-3	103-4	134-3	188-3	891-3	103-4	134-3	188-3	866-3																
0.085	197-3	153-4	465-3	217-3	113-2	141-4	301-3	200-3	104-2	131-4	236-3	195-3	964-3	120-4	183-3	192-3	943-3	117-4	160-3	189-3	926-3	117-4	160-3	189-3	926-3	117-4	160-3	189-3	943-3	117-4	160-3	189-3	926-3																
0.090	136-2	341-4	174-2	431-3	238-2	152-4	408-3	192-3	106-2	150-4	309-3	190-3	105-2	150-4	263-3	189-3	104-2	149-4	215-3	188-3	104-2	149-4	215-3	188-3	104-2	149-4	215-3	188-3	104-2	149-4	215-3	188-3	104-2																
0.095	492-3	267-4	104-2	302-3	176-2	169-4	356-3	192-3	112-2	165-4	347-3	188-3	116-2	164-4	300-3	189-3	116-2	166-4	246-3	188-3	116-2	166-4	246-3	188-3	116-2	166-4	246-3	188-3	116-2	166-4	246-3	188-3	116-2																
0.100	468-3	278-4	845-3	284-3	174-2	189-4	465-3	188-3	115-2	184-4	395-3	189-3	131-2	225-4	458-3	190-3	128-2	223-4	364-3	189-3	131-2	225-4	458-3	190-3	128-2	223-4	364-3	189-3	131-2	225-4	458-3	190-3	128-2																
0.110	183-2	549-4	203-2	464-3	313-2	247-4	695-3	209-3	141-2	230-4	508-3	194-3	160-2	278-4	642-3	197-3	145-2	266-4	485-3	189-3	139-2	145-2	266-4	485-3	189-3	139-2	145-2	266-4	485-3	189-3	139-2	145-2	266-4																
0.120	132-2	593-4	194-2	421-3	310-2	344-4	107-2	244-3	180-2	306-4	817-3	216-3	172-2	328-4	805-3	202-3	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4																
0.130	956-3	608-4	227-2	368-3	293-2	377-4	125-2	228-3	182-2	356-4	988-3	217-3	172-2	328-4	805-3	202-3	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4																
0.140	950-3	608-4	227-2	368-3	293-2	377-4	125-2	228-3	182-2	356-4	988-3	217-3	172-2	328-4	805-3	202-3	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4	595-3	189-3	150-2	158-2	311-4																
0.150	130-2	118-3	448-2	538-3	496-2	607-4	214-2	277-3	254-2	476-4	135-2	216-3	199-2	458-4	110-2	209-3	172-2	360-4	714-3	188-3	161-2	172-2	360-4	714-3	188-3	161-2	172-2	360-4	714-3	188-3	161-2	172-2	360-4																
0.160	230-2	162-3	557-2	649-3	638-2	852-4	246-2	340-3	334-2	649-4	171-2	258-3	254-2	564-4	141-2	228-3	221-2	473-4	946-3	189-3	185-2	221-2	473-4	946-3	189-3	185-2	221-2	473-4	946-3	189-3	185-2	221-2	473-4																
0.170	435-2	181-3	582-2	641-3	669-2	109-3	328-2	387-3	405-2	868-4	243-2	308-3	321-2	682-4	174-2	246-3	252-2	535-4	1052-2	194-3	198-2	252-2	535-4	1052-2	194-3	198-2	252-2	535-4	1052-2	194-3	198-2	252-2	535-4																
0.180	860-2	329-3	993-2	103-2	114-1	139-3	412-2	416-3	462-2	102-3	294-2	327-3	358-2	920-4	195-2	253-3	279-2	616-4	112-2	200-3	215-2	279-2	616-4	112-2	200-3	215-2	279-2	616-4	112-2	200-3	215-2	279-2	616-4																
0.190	577-2	217-3	633-2	616-3	719-2	132-3	388-2	373-3	437-2	111-3	299-2	313-3	367-2	820-4	192-2	262-3	304-2	693-4	112-2	203-3	229-2	304-2	693-4	112-2	203-3	229-2	304-2	693-4	112-2	203-3	229-2	304-2	693-4																
0.200	670-2	347-3	101-1	888-3	109-1	183-3	493-2	472-3	444-2	121-3	308-2	341-3	410-2	951-4	196-2	262-3	311-2	753-4	118-2	201-3	236-2	311-2	753-4	118-2	201-3	236-2	311-2	753-4	118-2	201-3	236-2	311-2	753-4																
0.220	865-2	356-3	877-2	752-3	101-1	155-3	335-2	328-3	444-2	121-3	308-2	341-3	410-2	951-4	196-2	262-3	311-2	753-4	118-2	201-3	236-2	311-2	753-4	118-2	201-3	236-2	311-2	753-4	118-2	201-3	236-2	311-2	753-4																
0.240	614-2	322-3	663-2	752-3	843-2	159-3	342-2	282-3	417-2	146-3	306-2	259-3	382-2	123-3	239-2	222-3	322-2	108-3	156-2	195-3	284-2	322-2	108-3	156-2	195-3	284-2	322-2	108-3	156-2	195-3	284-2	322-2	108-3																
0.260	195-1	904-3	198-1	136-2	218-1	339-3	803-2	516-3	821-2	213-3	445-2	329-3	356-2	160-3	253-2	210-3	359-2	149-3	177-2	196-3	334-2	359-2	149-3	177-2	196-3	334-2	359-2	149-3	177-2	196-3	334-2	359-2	149-3																
0.280	696-2	467-3	821-2	610-3	104-1	243-3	382-2	318-3	546-2	203-3	343-2	262-3	432-2	192-3	271-2	193-3	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3																
0.300	775-2	462-3	657-2	394-3	225-3	264-3	419-2	264-3	519-2	220-3	340-2	220-3	432-2	192-3	271-2	193-3	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3																
0.320	410-2	395-3	657-2	394-3	225-3	264-3	419-2	264-3	519-2	220-3	340-2	220-3	432-2	192-3	271-2	193-3	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3	185-2	196-3	359-2	378-2	171-3																
0.340	625-2	529-3	790-2	468-3	978-2	357-3	578-2	314-3	660-2	277-3	413-2	243-3	512-2	222-3	284-2	197-3	411-2	222-3	190-2	198-3	411-2	222-3	190-2	198-3	411-2	222-3	190-2	198-3	411-2	222-3	190-2	198-3	411-2																
0.360	728-2	631-3	805-2	498-3	110-1	323-3	488-2	254-3	564-2	263-3	352-2	208-3	460-2	257-3	266-2	204-3	449-2	252-3	203-2	201-3	440-2	252-3	203-2	201-3	440-2	252-3	203-2	201-3	449-2	252-3	203-2	201-3	440-2																
0.380	383-2	424-3	580-2	300-3	702-2	348-3	480-2	247-3	576-2	306-3	361-2	216-3	506-2	293-3	275-2	208-3	485-2	283-3	218-2	203-3	468-2	283-3	218-2	203-3	468-2	283-3	218-2	203-3	485-2	283-3	218-2	203-3	468-2																
0.400	683-2	695-3																																															

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	172-1	545-2	400-1	992-3	457-1	366-2	239-1	664-3	306-1	274-2	163-1	501-3	230-1	203-2	114-1	373-3	170-1
0.80	542-1	794-2	585-1	126-2	623-1	406-2	262-1	649-3	319-1	293-2	180-1	471-3	230-1	227-2	118-1	368-3	178-1
0.85	175-1	550-2	361-1	778-3	406-1	337-2	212-1	478-3	249-1	252-2	145-1	358-3	186-1	237-2	109-1	340-3	175-1
0.90	856-2	432-2	230-1	546-3	302-1	333-2	186-1	422-3	233-1	288-2	151-1	364-3	201-1	254-2	113-1	325-3	177-1
0.95	229-1	531-2	290-1	602-3	351-1	429-2	204-1	487-3	284-1	337-2	158-1	382-3	222-1	271-2	121-1	311-3	179-1
1.00	251-1	628-2	347-1	642-3	394-1	481-2	232-1	492-3	302-1	368-2	170-1	378-3	231-1	288-2	129-1	298-3	181-1
1.10	286-1	757-2	371-1	640-3	432-1	464-2	230-1	392-3	265-1	353-2	179-1	300-3	202-1	331-2	149-1	282-3	189-1
1.20	308-1	996-2	456-1	707-3	521-1	585-2	292-1	415-3	306-1	477-2	225-1	340-3	249-1	418-2	168-1	300-3	219-1
1.30	364-1	114-1	472-1	693-3	554-1	833-2	370-1	504-3	403-1	661-2	302-1	402-3	334-1	529-2	231-1	324-3	256-1
1.40	446-1	148-1	597-1	773-3	665-1	982-2	416-1	513-3	441-1	745-2	346-1	390-3	334-1	643-2	265-1	340-3	288-1
1.50	428-1	179-1	638-1	815-3	751-1	130-1	440-1	591-3	544-1	961-2	334-1	438-3	402-1	829-2	263-1	381-3	347-1
1.60	390-1	234-1	827-1	936-3	920-1	170-1	585-1	681-3	669-1	134-1	441-1	539-3	528-1	110-1	349-1	449-3	435-1
1.70	203-1	184-1	627-1	652-3	681-1	167-1	546-1	592-3	618-1	160-1	506-1	571-3	594-1	137-1	445-1	494-3	508-1
1.80	384-1	257-1	805-1	813-3	899-1	239-1	745-1	758-3	837-1	216-1	673-1	687-3	756-1	174-1	560-1	560-3	609-1
1.90	138 0	631-1	199 0	178-2	208 0	444-1	139 0	126-2	147 0	312-1	977-1	888-3	103 0	220-1	697-1	634-3	728-1
2.00	430 0	144 0	449 0	369-2	454 0	797-1	245 0	204-2	250 0	462-1	141 0	118-2	145 0	262-1	800-1	682-3	823-1
2.20	125 0	747-1	222 0	157-2	213 0	559-1	164 0	118-2	159 0	407-1	118 0	865-3	116 0	275-1	810-1	595-3	787-1
2.40	728-1	461-1	126 0	820-3	120 0	358-1	103 0	636-3	937-1	307-1	874-1	548-3	804-1	243-1	693-1	442-3	636-1
2.60	654-1	466-1	120 0	706-3	112 0	357-1	944-1	541-3	864-1	272-1	720-1	414-3	657-1	209-1	605-1	326-3	507-1
2.80	759-1	390-1	960-1	508-3	875-1	314-1	793-1	411-3	706-1	248-1	641-1	326-3	557-1	194-1	535-1	261-3	435-1
3.00	189-1	252-1	645-1	287-3	528-1	233-1	610-1	265-3	488-1	209-1	565-1	239-3	438-1	179-1	502-1	211-3	376-1
3.20	107-1	229-1	618-1	229-3	450-1	216-1	583-1	216-3	424-1	199-1	538-1	200-3	390-1	176-1	478-1	183-3	346-1
3.40	349-1	229-1	557-1	202-3	423-1	215-1	530-1	191-3	398-1	198-1	494-1	176-3	366-1	174-1	444-1	160-3	322-1
3.60	183-1	251-1	515-1	198-3	438-1	210-1	485-1	166-3	366-1	191-1	458-1	152-3	334-1	168-1	418-1	138-3	293-1
3.80	289-1	230-1	517-1	163-3	380-1	196-1	481-1	139-3	324-1	180-1	454-1	129-3	298-1	158-1	415-1	118-3	262-1
4.00	185-1	212-1	488-1	135-3	333-1	179-1	470-1	115-3	282-1	168-1	445-1	109-3	265-1	154-1	409-1	103-3	242-1
4.20	118-1	201-1	469-1	116-3	301-1	185-1	453-1	107-3	277-1	175-1	431-1	102-3	262-1	159-1	398-1	970-4	239-1
4.40	255-1	199-1	447-1	105-3	285-1	191-1	433-1	101-3	273-1	180-1	414-1	964-4	257-1	163-1	385-1	907-4	233-1
4.60	202-1	205-1	423-1	995-4	281-1	196-1	411-1	953-4	269-1	184-1	394-1	902-4	251-1	166-1	369-1	845-4	227-1
4.80	100-1	211-1	414-1	939-4	277-1	201-1	386-1	894-4	263-1	187-1	371-1	840-4	244-1	167-1	351-1	783-4	219-1
5.00	209-1	240-1	388-1	983-4	302-1	203-1	368-1	832-4	255-1	187-1	353-1	775-4	235-1	166-1	331-1	720-4	209-1
5.50	205-1	233-1	412-1	788-4	266-1	203-1	385-1	687-4	231-1	175-1	366-1	603-4	200-1	155-1	339-1	558-4	177-1
6.00	150-1	201-1	386-1	572-4	210-1	174-1	373-1	497-4	182-1	146-1	356-1	424-4	153-1	132-1	333-1	403-4	138-1
6.50	156-1	188-1	347-1	456-4	182-1	165-1	340-1	402-4	159-1	148-1	331-1	366-4	143-1	130-1	316-1	339-4	126-1
7.00	301-2	175-1	304-1	366-4	157-1	163-1	303-1	342-4	146-1	147-1	301-1	318-4	132-1	131-1	296-1	306-4	118-1
7.50	827-2	151-1	287-1	276-4	127-1	146-1	277-1	267-4	122-1	138-1	276-1	257-4	116-1	127-1	277-1	262-4	106-1
8.00	866-2	134-1	281-1	214-4	105-1	131-1	275-1	211-4	103-1	127-1	266-1	208-4	100-1	120-1	262-1	219-4	945-2

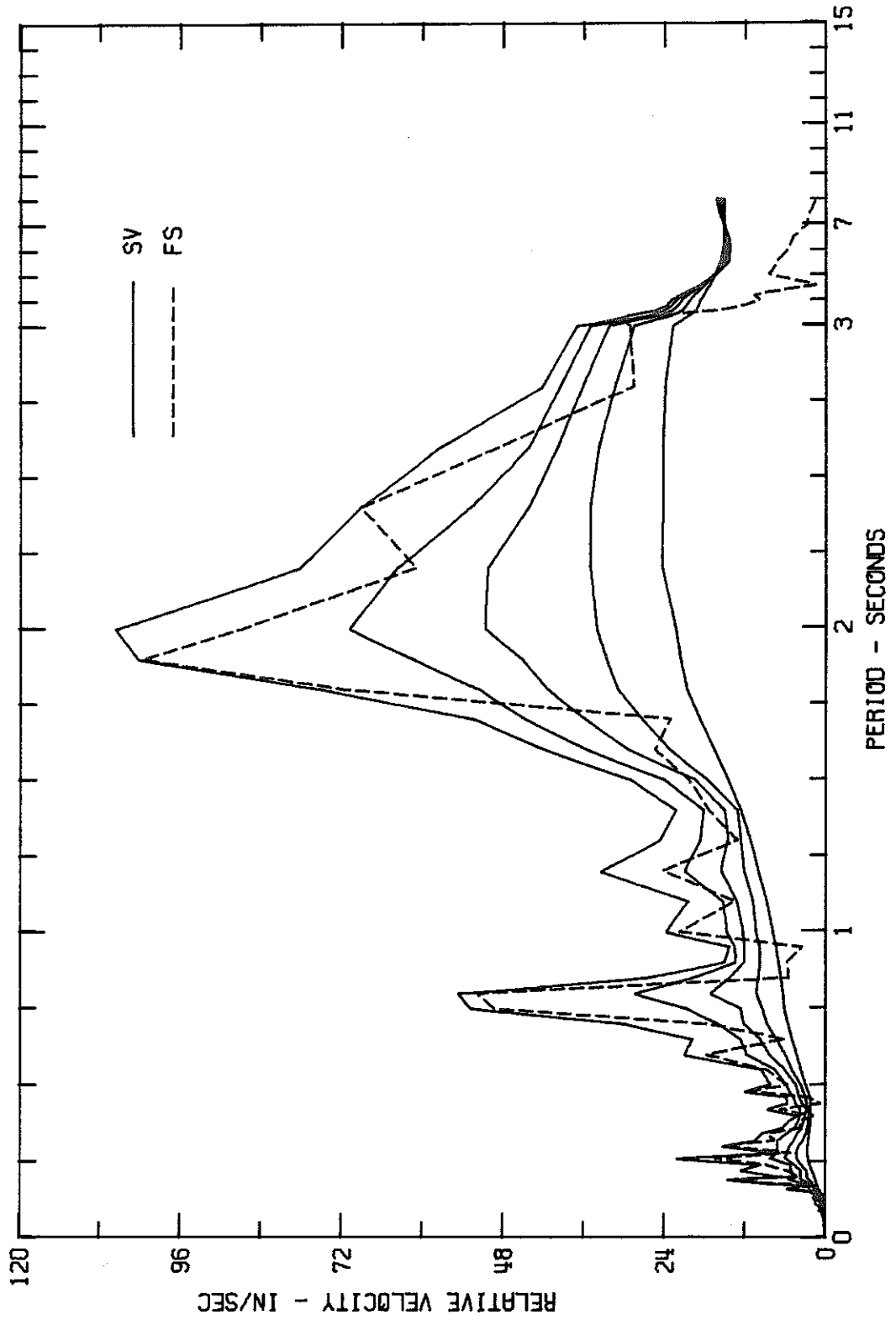
DAMPING = 0 PER CENT

DAMPING = 2 PER CENT

DAMPING = 5 PER CENT

DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

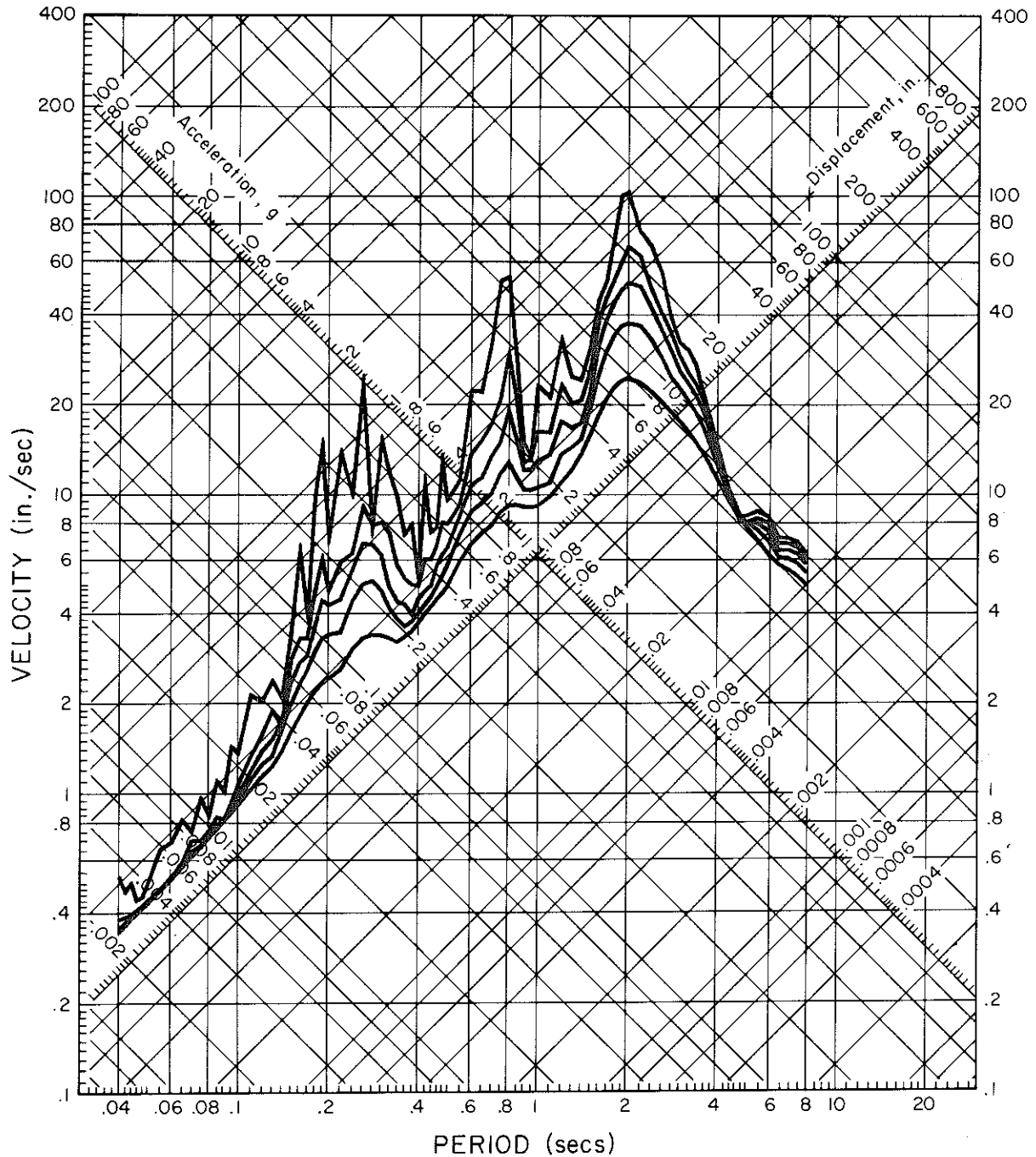


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP SOON

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP SCOW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

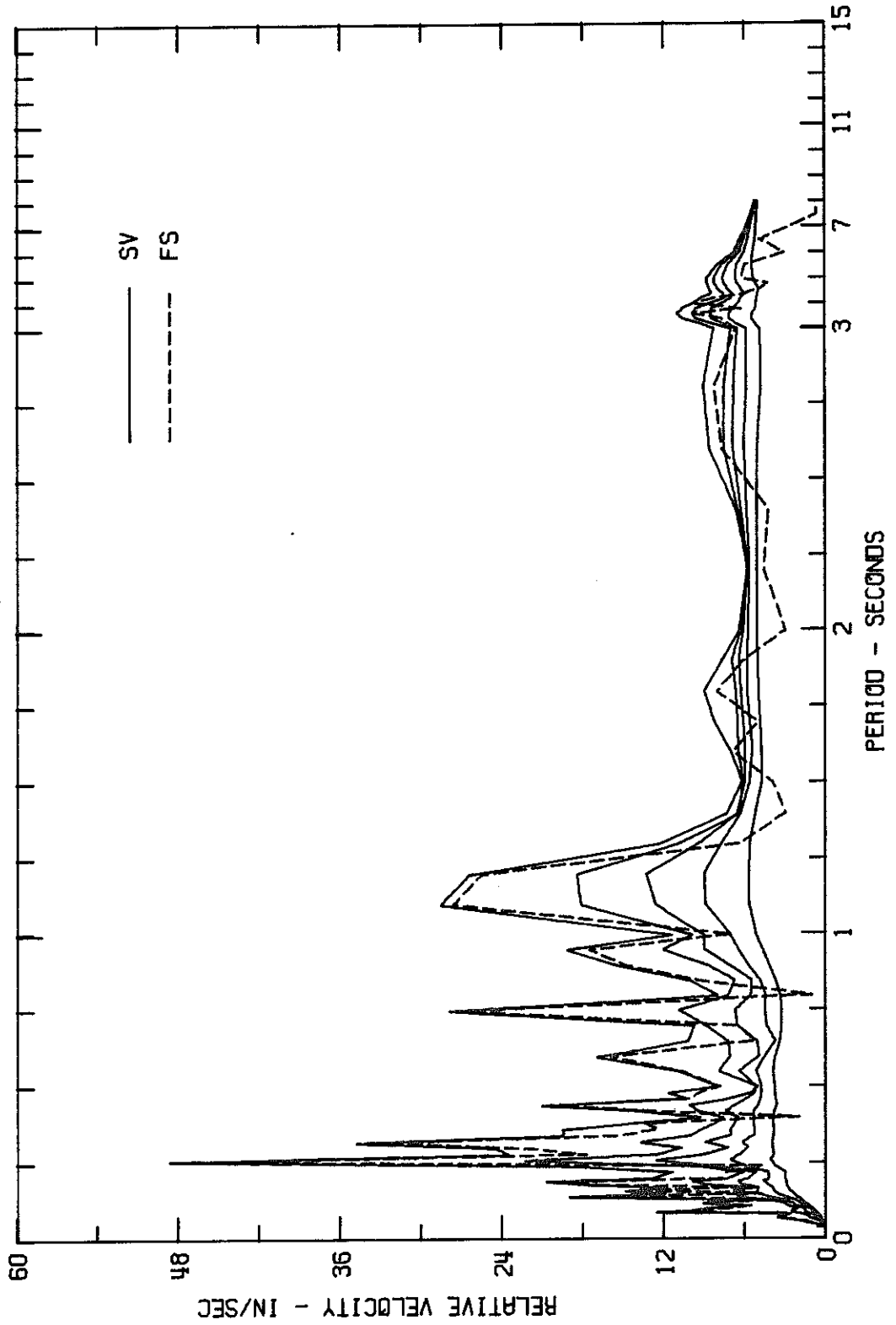
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	154-3	334-5	220-3	214-3	526-3	242-5	705-4	154-3	380-3	225-5	448-4	144-3	354-3	222-5	423-4	142-3	350-3
0.042	968-4	313-5	156-3	182-3	469-3	257-5	557-4	149-3	385-3	248-5	504-4	143-3	371-3	245-5	472-4	142-3	367-3
0.044	160-3	351-5	176-3	185-3	502-3	275-5	673-4	145-3	393-3	270-5	580-4	143-3	386-3	268-5	525-4	141-3	383-3
0.046	602-4	322-5	970-4	156-3	441-3	297-5	704-4	144-3	407-3	294-5	626-4	142-3	401-3	292-5	574-4	141-3	399-3
0.048	476-4	345-5	805-4	153-3	452-3	321-5	668-4	142-3	421-3	318-5	649-4	141-3	416-3	317-5	617-4	140-3	415-3
0.050	475-4	398-5	133-3	163-3	501-3	348-5	658-4	142-3	438-3	346-5	666-4	141-3	434-3	343-5	663-4	140-3	431-3
0.055	221-3	573-5	257-3	193-3	655-3	420-5	105-3	141-3	479-3	416-5	941-4	140-3	475-3	416-5	844-4	140-3	476-3
0.060	277-3	658-5	286-3	187-3	689-3	505-5	113-3	143-3	528-3	498-5	112-3	141-3	521-3	497-5	105-3	141-3	521-3
0.065	203-3	848-5	372-3	205-3	820-3	606-5	133-3	146-3	586-3	592-5	132-3	143-3	573-3	589-5	126-3	142-3	569-3
0.070	162-3	832-5	449-3	173-3	747-3	778-5	185-3	162-3	698-3	718-5	162-3	149-3	645-3	687-5	150-3	143-3	617-3
0.075	204-3	115-4	574-3	210-3	968-3	833-5	182-3	151-3	698-3	800-5	180-3	145-3	670-3	797-5	174-3	144-3	667-3
0.080	158-3	107-4	336-3	172-3	847-3	960-5	237-3	153-3	754-3	935-5	204-3	149-3	734-3	919-5	197-3	147-3	722-3
0.085	561-3	149-4	619-3	211-3	110-2	113-4	260-3	161-3	842-3	106-4	231-3	150-3	786-3	104-4	223-3	147-3	770-3
0.090	237-3	146-4	483-3	184-3	101-2	117-4	334-3	148-3	819-3	118-4	262-3	149-3	827-3	113-4	255-3	149-3	824-3
0.095	691-3	217-4	896-3	247-3	144-2	142-4	441-3	161-3	944-3	135-4	312-3	154-3	898-3	138-4	309-3	151-3	882-3
0.100	945-3	217-4	948-3	222-3	136-2	170-4	473-3	174-3	107-2	157-4	425-3	160-3	989-3	150-4	383-3	154-3	944-3
0.110	124-2	374-4	145-2	316-3	214-2	233-4	739-3	197-3	133-2	208-4	666-3	175-3	119-2	195-4	543-3	164-3	111-2
0.120	105-2	388-4	150-2	275-3	203-2	301-4	862-3	213-3	157-2	265-4	718-3	189-3	138-2	240-4	633-3	171-3	125-2
0.130	436-3	494-4	184-2	299-3	239-2	395-4	134-2	238-3	190-2	316-4	993-3	192-3	152-2	276-4	805-3	168-3	133-2
0.140	299-3	464-4	140-2	242-3	208-2	376-4	205-2	305-3	281-2	564-4	166-2	259-3	236-2	479-4	129-2	218-3	200-2
0.150	180-2	823-4	260-2	374-3	345-2	671-4	245-2	338-3	332-2	700-4	187-2	278-3	275-2	593-4	154-2	238-3	233-2
0.160	527-2	166-3	576-2	666-3	654-2	846-4	254-2	388-4	408-2	898-4	408-2	317-3	289-2	705-4	177-2	253-3	260-2
0.170	127-2	110-3	346-2	391-3	999-2	137-3	387-2	434-3	479-2	104-3	278-2	328-3	364-2	855-4	211-2	274-3	298-2
0.180	982-2	286-3	977-2	904-3	147-1	187-3	555-2	529-3	618-2	135-3	377-2	385-3	448-2	100-3	255-2	289-3	332-2
0.190	144-1	447-3	147-1	126-2	734-2	152-3	438-2	390-3	480-2	137-3	377-2	346-3	431-2	108-3	279-2	282-3	341-2
0.200	407-2	233-3	683-2	597-3	734-2	152-3	438-2	390-3	480-2	137-3	377-2	346-3	431-2	108-3	279-2	282-3	341-2
0.220	579-2	490-3	126-1	103-2	140-1	212-3	526-2	445-3	606-2	158-3	377-2	335-3	452-2	122-3	294-2	262-3	348-2
0.240	882-2	389-3	970-2	691-3	101-1	246-3	539-2	441-3	645-2	216-3	479-2	391-3	566-2	170-3	371-2	308-3	445-2
0.260	165-1	981-3	222-1	148-2	237-1	382-3	838-2	583-3	524-2	288-3	608-2	438-3	696-2	210-3	436-2	323-3	508-2
0.280	521-2	351-3	734-2	459-3	789-2	356-3	715-2	466-3	799-2	306-3	577-2	399-3	688-2	231-3	440-2	304-3	518-2
0.300	151-1	742-3	154-1	843-3	155-1	390-3	726-2	446-3	817-2	304-3	532-2	347-3	636-2	230-3	404-2	266-3	483-2
0.320	763-2	605-3	104-1	604-3	118-1	379-3	715-2	378-3	746-2	250-3	474-2	253-3	451-2	213-3	339-2	220-3	419-2
0.340	856-2	535-3	959-2	474-3	990-2	316-3	577-2	279-3	585-2	239-3	420-2	214-3	441-2	208-3	294-2	185-3	385-2
0.360	378-2	426-3	640-2	336-3	744-2	303-3	465-2	239-3	530-2	248-3	350-2	196-3	434-2	209-3	270-2	167-3	365-2
0.380	383-2	486-3	552-2	344-3	803-2	303-3	410-2	216-3	505-2	242-3	335-2	171-3	401-2	230-3	252-2	164-3	380-2
0.400	187-2	343-3	419-2	219-3	539-2	318-3	375-2	203-3	500-2	290-3	303-2	185-3	455-2	258-3	247-2	166-3	406-2
0.420	693-2	741-3	864-2	429-3	110-1	413-3	389-2	239-3	618-2	322-3	287-2	186-3	482-2	291-3	267-2	169-3	435-2
0.440	734-3	530-3	567-2	280-3	756-2	430-3	453-2	227-3	615-2	352-3	351-2	187-3	503-2	323-3	291-2	171-3	462-2
0.460	262-2	575-3	596-2	278-3	785-2	505-3	488-2	244-3	690-2	431-3	399-2	209-3	589-2	366-3	310-2	177-3	500-2
0.480	110-1	999-3	121-1	443-3	130-1	627-3	540-2	278-3	820-2	490-3	422-2	218-3	642-2	414-3	345-2	185-3	543-2
0.500	574-2	774-3	823-2	316-3	973-2	643-3	599-2	262-3	808-2	539-3	444-2	221-3	677-2	468-3	379-2	193-3	589-2
0.550	886-2	995-3	963-2	336-3	113-1	827-3	757-2	279-3	945-2	755-3	618-2	256-3	863-2	654-3	504-2	223-3	747-2
0.600	177-1	216-2	210-1	616-3	227-1	133-2	117-1	379-3	139-1	104-2	846-2	300-3	109-1	854-3	609-2	246-3	894-2
0.650	600-2	232-2	198-1	563-3	225-1	160-2	127-1	389-3	155-1	119-2	983-2	289-3	115-1	985-3	740-2	242-3	952-2
0.700	177-1	369-2	300-1	771-3	331-1	196-2	160-1	410-3	176-1	152-2	123-1	319-3	137-1	114-2	887-2	240-3	102-1

IIH123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP SOOW

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT										
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV					
0.75	495-1	637-2	530-1	115-2	533-1	254-2	208-1	463-3	213-1	182-2	128-1	332-3	152-1	143-2	953-2	263-3	115-1	106-2	632-2	199-3	889-2	
0.80	519-1	696-2	548-1	111-2	547-1	384-2	285-1	615-3	302-1	247-2	172-1	398-3	194-1	165-2	103-1	268-3	130-1	118-2	643-2	197-3	934-2	
0.85	562-2	391-2	266-1	554-3	289-1	289-2	198-1	409-3	213-1	210-2	143-1	299-3	155-1	156-2	998-2	224-3	115-1	126-2	674-2	187-3	938-2	
0.90	584-2	216-2	150-1	273-3	151-1	186-2	134-1	235-3	130-1	175-2	121-1	222-3	122-1	150-2	981-2	193-3	105-1	132-2	717-2	175-3	926-2	
0.95	348-2	206-2	143-1	233-3	136-1	200-2	135-1	227-3	132-1	185-2	121-1	211-3	122-1	158-2	995-2	183-3	105-1	139-2	753-2	165-3	922-2	
1.00	218-1	376-2	238-1	385-3	236-1	263-2	148-1	269-3	165-1	208-2	124-1	214-3	131-1	170-2	104-1	177-3	107-1	148-2	794-2	158-3	931-2	
1.10	134-1	377-2	204-1	318-3	215-1	286-2	154-1	242-3	163-1	241-2	134-1	205-3	138-1	194-2	109-1	167-3	111-1	175-2	892-2	154-3	100-1	
1.20	243-1	646-2	335-1	459-3	338-1	454-2	210-1	322-3	237-1	342-2	157-1	244-3	179-1	265-2	123-1	191-3	138-1	213-2	101-1	158-3	111-1	
1.30	131-1	520-2	246-1	315-3	251-1	423-2	187-1	256-3	204-1	351-2	146-1	213-3	170-1	303-2	127-1	185-3	146-1	254-2	113-1	161-3	122-1	
1.40	175-1	547-2	222-1	285-3	245-1	469-2	181-1	245-3	210-1	394-2	152-1	206-3	176-1	347-2	133-1	182-3	155-1	310-2	128-1	169-3	139-1	
1.50	204-1	760-2	292-1	345-3	318-1	635-2	242-1	288-3	266-1	536-2	196-1	244-3	224-1	474-2	178-1	217-3	198-1	387-2	147-1	184-3	162-1	
1.60	254-1	114-1	417-1	472-3	464-1	100-1	355-1	400-3	393-1	826-2	294-1	331-3	324-1	657-2	233-1	266-3	258-1	480-2	167-1	201-3	188-1	
1.70	230-1	144-1	523-1	512-3	535-1	128-1	448-1	453-3	473-1	107-1	359-1	382-3	397-1	839-2	274-1	300-3	310-1	579-2	189-1	215-3	214-1	
1.80	717-1	216-1	750-1	684-3	757-1	155-1	517-1	489-3	541-1	130-1	415-1	413-3	455-1	100-1	311-1	322-3	351-1	669-2	207-1	224-3	233-1	
1.90	101 0	313-1	102 0	886-3	103 0	859-3	105 0	859-3	105 0	221-1	709-1	566-3	695-1	165-1	1508-1	425-3	520-1	121-1	743-2	217-1	226-3	245-1
2.00	870-1	336-1	105 0	571-3	772-1	224-1	638-1	474-3	640-1	177-1	502-1	377-3	506-1	131-1	352-1	284-3	376-1	847-2	225-1	220-3	250-1	
2.20	610-1	270-1	782-1	571-3	772-1	224-1	638-1	474-3	640-1	177-1	502-1	377-3	506-1	131-1	352-1	284-3	376-1	847-2	225-1	220-3	250-1	
2.40	692-1	264-1	692-1	469-3	692-1	190-1	528-1	338-3	498-1	164-1	442-1	292-3	429-1	128-1	351-1	234-3	337-1	859-2	243-1	164-3	224-1	
2.60	484-1	233-1	573-1	352-3	563-1	170-1	440-1	258-3	412-1	149-1	399-1	228-3	362-1	121-1	337-1	187-3	292-1	859-2	243-1	140-3	207-1	
2.80	286-1	178-1	422-1	232-3	400-1	157-1	395-1	206-3	354-1	137-1	361-1	180-3	309-1	111-1	314-1	149-3	251-1	856-2	239-1	121-3	192-1	
3.00	292-1	156-1	369-1	177-3	327-1	141-1	345-1	160-3	296-1	125-1	322-1	143-3	262-1	109-1	284-1	127-3	229-1	852-2	227-1	105-3	178-1	
3.20	300-1	158-1	321-1	157-3	310-1	132-1	306-1	132-3	260-1	121-1	285-1	122-3	239-1	106-1	254-1	109-3	209-1	841-2	214-1	922-4	165-1	
3.40	257-1	148-1	290-1	131-3	274-1	128-1	261-1	114-3	238-1	117-1	247-1	105-3	217-1	103-1	229-1	939-4	190-1	822-2	203-1	811-4	152-1	
3.60	162-1	128-1	254-1	101-3	223-1	120-1	240-1	949-4	209-1	110-1	228-1	879-4	192-1	976-2	213-1	797-4	170-1	797-2	193-1	710-4	139-1	
3.80	121-1	110-1	237-1	785-4	183-1	105-1	229-1	750-4	174-1	992-2	220-1	711-4	164-1	904-2	207-1	668-4	149-1	767-2	190-1	621-4	126-1	
4.00	987-2	957-2	229-1	612-4	150-1	914-2	222-1	586-4	143-1	872-2	213-1	565-4	137-1	828-2	202-1	556-4	130-1	735-2	186-1	544-4	115-1	
4.20	106-1	850-2	216-1	492-4	127-1	826-2	211-1	480-4	123-1	792-2	204-1	467-4	118-1	760-2	195-1	466-4	113-1	705-2	182-1	479-4	105-1	
4.40	643-2	740-2	202-1	391-4	105-1	733-2	198-1	389-4	104-1	721-2	194-1	388-4	102-1	709-2	188-1	399-4	101-1	680-2	177-1	427-4	971-2	
4.60	154-2	696-2	187-1	336-4	951-2	665-2	186-1	323-4	909-2	659-2	184-1	325-4	900-2	677-2	180-1	351-4	925-2	660-2	173-1	384-4	902-2	
4.80	492-2	657-2	174-1	291-4	860-2	631-2	174-1	281-4	826-2	648-2	174-1	294-4	849-2	663-2	173-1	316-4	868-2	647-2	168-1	350-4	847-2	
5.00	859-2	685-2	163-1	280-4	861-2	650-2	164-1	266-4	816-2	658-2	165-1	275-4	827-2	660-2	166-1	292-4	830-2	638-2	165-1	322-4	802-2	
5.50	733-2	782-2	144-1	264-4	894-2	739-2	147-1	251-4	845-2	712-2	151-1	247-4	813-2	677-2	154-1	250-4	773-2	626-2	157-1	270-4	715-2	
6.00	560-2	818-2	143-1	232-4	857-2	779-2	142-1	222-4	816-2	733-2	145-1	214-4	767-2	677-2	149-1	213-4	709-2	610-2	153-1	230-4	639-2	
6.50	480-2	754-2	147-1	182-4	728-2	722-2	145-1	175-4	698-2	683-2	147-1	171-4	660-2	648-2	149-1	175-4	626-2	613-2	151-1	204-4	592-2	
7.00	283-2	806-2	153-1	168-4	724-2	776-2	152-1	163-4	696-2	738-2	152-1	159-4	663-2	692-2	151-1	158-4	621-2	633-2	151-1	186-4	568-2	
7.50	234-2	843-2	160-1	153-4	707-2	809-2	158-1	148-4	678-2	767-2	156-1	144-4	643-2	714-2	154-1	143-4	598-2	645-2	151-1	171-4	541-2	
8.00	146-2	823-2	164-1	131-4	646-2	795-2	161-1	128-4	624-2	759-2	159-1	126-4	596-2	711-2	156-1	128-4	559-2	647-2	152-1	156-4	508-2	

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

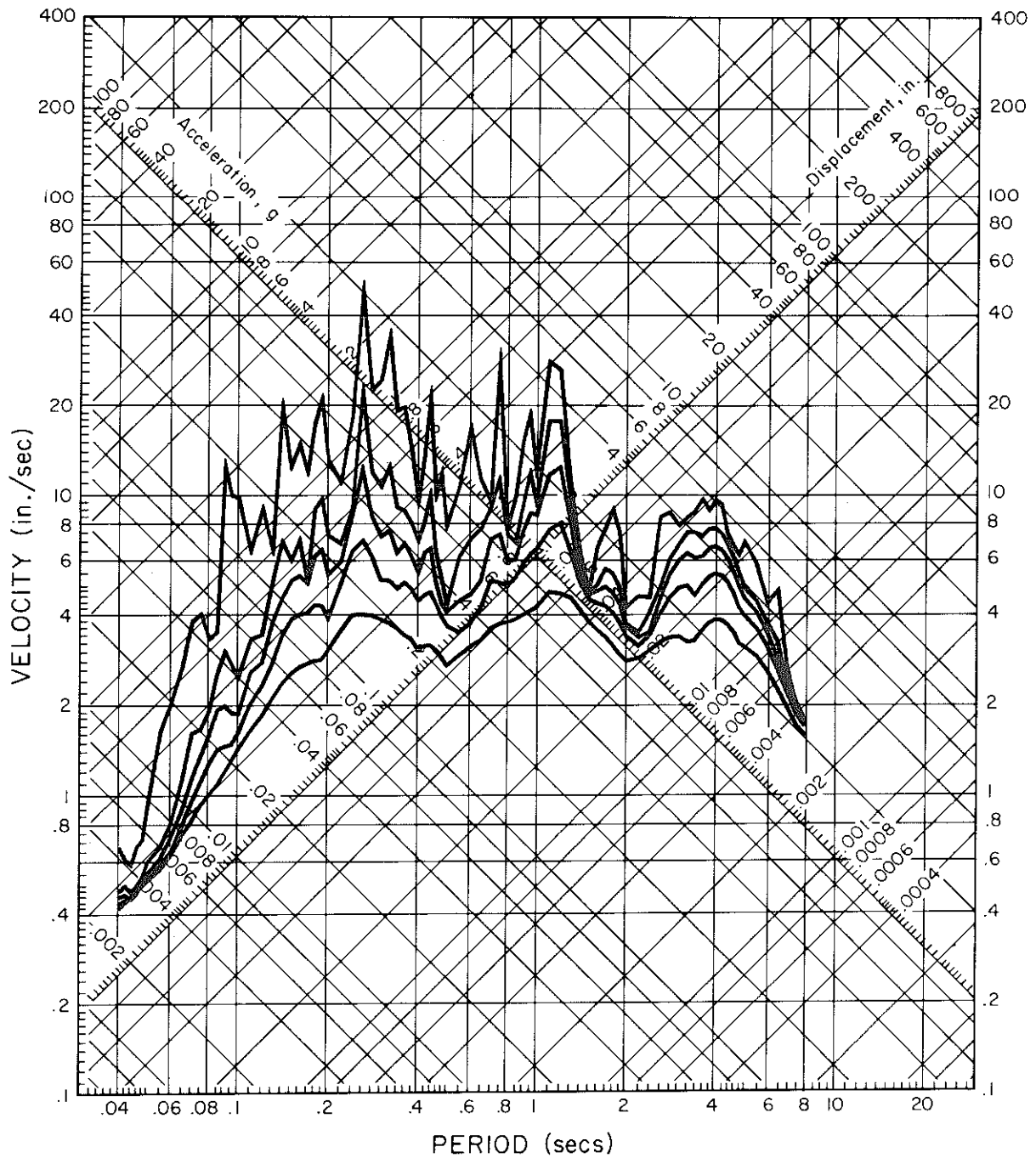


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



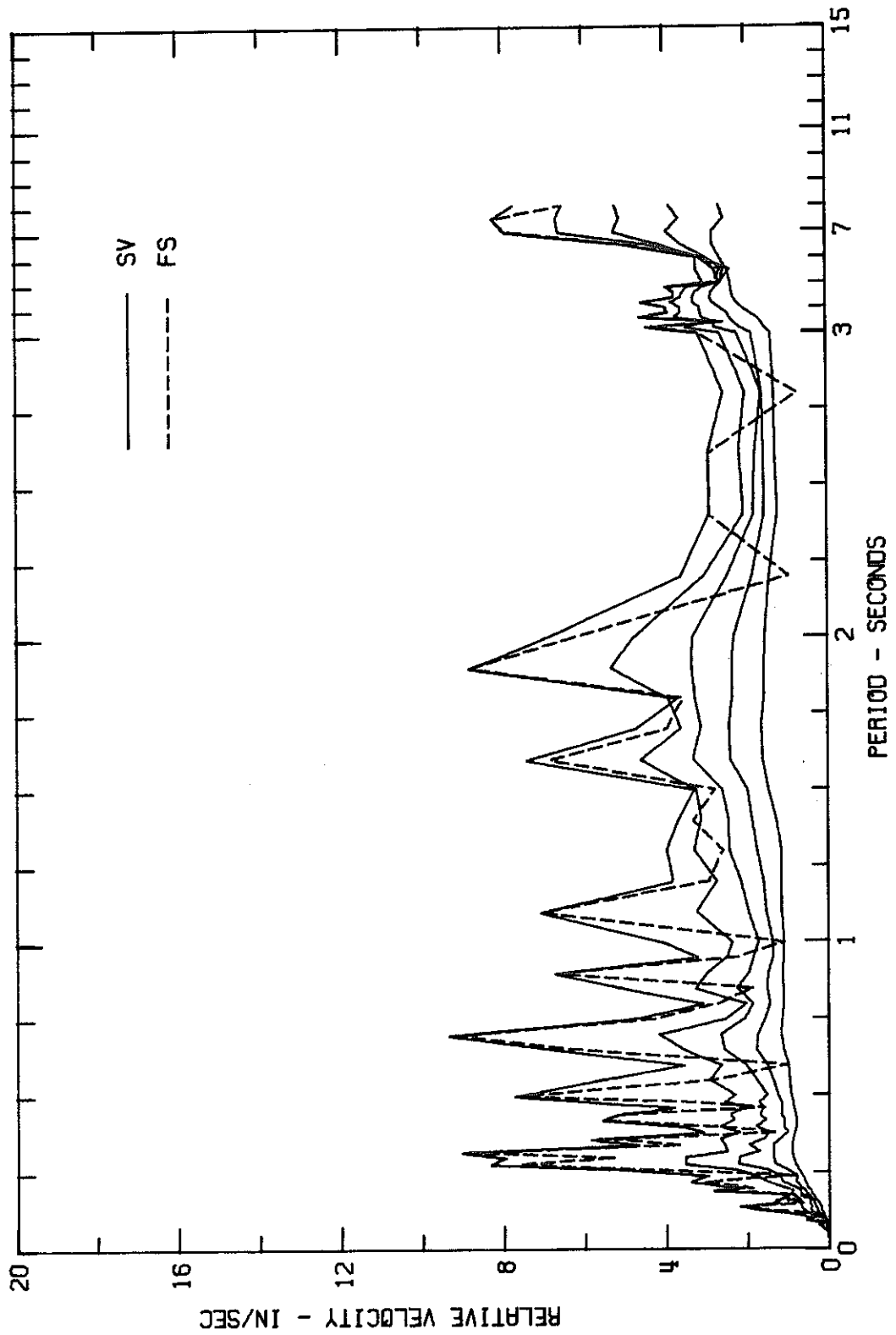
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIH123 71.082.0 900 SOUTH FREMONT AVENUE, 12TH FLOOR, ALHAMBRA, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.040	483-3	420-5	551-3	268-3	660-3	302-5	152-3	193-3	474-3	289-5	138-5	185-3	454-3	274-5	128-3	175-3	431-3	266-5	117-3	170-3	418-3																												
0.042	793-4	406-5	346-3	235-3	607-3	331-5	164-3	192-3	495-3	308-5	143-3	178-3	461-3	296-5	140-3	172-3	443-3	292-5	129-3	169-3	437-3																												
0.044	121-3	408-5	296-3	216-3	583-3	330-5	192-3	174-3	472-3	313-5	160-3	165-3	447-3	318-5	154-3	168-3	454-3	319-5	143-3	169-3	456-3																												
0.046	148-3	491-5	352-3	237-3	671-3	363-5	216-3	175-3	496-3	340-5	179-3	164-3	464-3	346-5	171-3	167-3	473-3	348-5	158-3	169-3	475-3																												
0.048	127-3	541-5	546-3	240-3	709-3	407-5	210-3	180-3	533-3	388-5	195-3	172-3	508-3	382-5	187-3	169-3	500-3	378-5	174-3	168-3	495-3																												
0.050	660-3	752-5	694-3	307-3	945-3	477-5	266-3	195-3	600-3	437-5	208-3	179-3	549-3	421-5	205-3	171-3	529-3	410-5	191-3	168-3	515-3																												
0.055	114-2	143-4	131-2	484-3	163-2	585-5	324-3	197-3	668-3	538-5	281-3	182-3	615-3	509-5	259-3	172-3	581-3	490-5	238-3	168-3	560-3																												
0.060	153-2	197-4	189-2	560-3	206-2	777-5	359-3	222-3	814-3	698-5	440-3	198-3	731-3	622-5	349-3	177-3	652-3	607-5	297-3	176-3	635-3																												
0.065	205-2	280-4	256-2	679-3	271-2	117-4	855-3	283-3	113-2	920-5	604-3	222-3	889-3	815-5	446-3	199-3	788-3	756-5	358-3	187-3	731-3																												
0.070	334-2	425-4	360-2	888-3	381-2	180-4	129-2	378-3	162-2	126-4	723-3	263-3	113-2	106-4	544-3	222-3	957-3	917-5	411-3	199-3	823-3																												
0.075	341-2	481-4	346-2	875-3	403-2	198-4	120-2	362-3	166-2	163-4	843-3	296-3	136-2	133-4	624-3	246-3	118-2	110-4	468-3	207-3	929-3																												
0.080	292-2	421-4	307-2	674-3	331-2	245-4	147-2	392-3	192-2	205-4	993-3	327-3	161-2	163-4	731-3	265-3	128-2	128-4	529-3	209-3	100-2																												
0.085	260-2	476-4	301-2	674-3	352-2	345-4	183-2	490-3	255-2	261-4	131-2	374-3	193-2	192-4	912-3	276-3	142-2	147-4	630-3	214-3	108-2																												
0.090	115-1	181-3	126-1	229-2	126-1	434-4	255-2	545-3	303-2	285-4	156-2	364-3	199-2	208-4	102-2	262-3	145-2	171-4	745-3	222-3	119-2																												
0.095	906-2	151-3	984-2	171-2	100-1	414-4	254-2	468-3	273-2	284-4	161-2	325-3	188-2	224-4	108-2	254-3	148-2	197-4	866-3	232-3	130-2																												
0.100	801-2	156-3	929-2	159-2	981-2	394-4	208-2	401-3	247-2	297-4	152-2	310-3	187-2	258-4	121-2	272-3	162-2	228-4	100-2	242-3	143-2																												
0.110	547-2	114-3	641-2	969-3	655-2	582-4	287-2	494-3	332-2	493-4	222-2	390-3	259-2	357-4	169-2	304-3	204-2	290-4	128-2	254-3	165-2																												
0.120	902-2	174-3	912-2	123-2	913-2	657-4	313-2	469-3	344-2	531-4	253-2	383-3	278-2	443-4	196-2	326-3	232-2	354-4	157-2	267-3	185-2																												
0.130	271-2	137-3	596-2	829-3	662-2	106-3	431-2	648-3	517-2	782-4	321-2	478-3	378-2	573-4	233-2	345-3	277-2	438-4	184-2	278-3	212-2																												
0.140	168-1	444-3	191-1	132-2	124-1	157-3	662-2	618-3	707-2	102-3	435-2	538-3	460-2	766-4	316-2	412-3	343-2	528-4	219-2	292-3	237-2																												
0.150	509-2	297-3	118-1	135-2	124-1	144-3	561-2	662-3	607-2	124-3	508-2	569-3	522-2	927-4	371-2	436-3	380-2	612-4	245-2	298-3	256-2																												
0.160	134-1	380-3	149-1	152-2	149-1	181-3	690-2	726-3	713-2	137-3	513-2	552-3	541-2	102-3	388-2	416-3	402-2	683-4	268-2	293-3	268-2																												
0.170	642-2	324-3	176-1	114-2	120-1	142-3	504-2	505-3	527-2	138-3	502-2	497-3	511-2	110-3	397-2	401-3	407-2	746-4	282-2	285-3	275-2																												
0.180	176-1	646-3	176-1	159-2	176-1	261-3	911-2	827-3	913-2	181-3	630-2	579-3	631-2	124-3	436-2	402-3	433-2	809-4	294-2	278-3	282-2																												
0.190	188-1	646-3	207-1	183-2	213-1	298-3	993-2	845-3	985-2	201-3	650-2	570-3	665-2	130-3	462-2	376-3	430-2	858-4	298-2	260-3	283-2																												
0.200	766-2	417-3	128-1	106-2	131-1	234-3	722-2	597-3	735-2	174-3	575-2	437-3	546-2	124-3	423-2	329-3	391-2	978-4	300-2	259-3	307-2																												
0.220	730-2	389-3	113-1	822-3	111-1	242-3	608-2	613-3	693-2	211-3	520-2	450-3	860-2	250-3	596-2	443-3	656-2	153-3	373-2	289-3	356-2																												
0.240	465-2	701-3	180-1	124-2	183-1	350-3	933-2	621-3	917-2	328-3	800-2	595-3	860-2	250-3	596-2	443-3	656-2	153-3	373-2	289-3	356-2																												
0.260	468-1	202-2	487-1	306-2	490-1	926-3	923-2	621-3	917-2	328-3	800-2	595-3	860-2	250-3	596-2	443-3	656-2	153-3	373-2	289-3	356-2																												
0.280	177-1	100-2	234-1	131-2	226-1	532-3	123-1	693-3	119-1	377-3	889-2	487-3	847-2	277-3	632-2	367-3	623-2	178-3	387-2	251-3	399-2																												
0.300	223-1	117-2	245-1	133-2	246-1	513-3	106-1	583-3	107-1	350-3	724-2	397-3	733-2	249-3	580-2	297-3	523-2	185-3	396-2	227-3	387-2																												
0.320	340-1	177-2	349-1	177-2	348-1	643-3	137-1	640-3	126-1	390-3	894-2	397-3	767-2	265-3	622-2	276-3	521-2	191-3	401-2	212-3	376-2																												
0.340	154-1	104-2	193-1	927-3	193-1	497-3	597-2	442-3	919-2	347-3	704-2	305-3	642-2	265-3	533-2	239-3	490-2	196-3	386-2	193-3	362-2																												
0.360	124-1	114-2	195-1	900-3	199-1	510-3	922-2	401-3	891-2	399-3	710-2	313-3	697-2	295-3	530-2	240-3	515-2	197-3	387-2	172-3	344-2																												
0.380	133-1	863-3	142-1	611-3	142-1	490-3	810-2	347-3	811-2	379-3	673-2	269-3	627-2	296-3	539-2	215-3	489-2	201-3	395-2	157-3	333-2																												
0.400	195-2	614-3	924-2	392-3	965-2	452-3	761-2	289-3	710-2	353-3	652-2	227-3	555-2	284-3	534-2	186-3	447-2	194-3	388-2	139-3	305-2																												
0.420	130-1	919-3	137-1	533-3	137-1	550-3	951-2	319-3	823-2	435-3	745-2	256-3	651-2	213-3	528-2	188-3	468-2	211-3	379-2	137-3	316-2																												
0.440	198-1	151-2	211-1	800-3	216-1	712-3	101-1	376-3	101-1	471-3	668-2	253-3	672-2	333-3	500-2	179-3	476-2	222-3	364-2	134-3	318-2																												
0.460	100-1	737-3	103-1	356-3	100-1	476-3	712-2	230-3	650-2	376-3	587-2	183-3	514-2	318-3	482-2	160-3	434-2	224-3	372-2	126-3	306-2																												
0.480	938-2	922-3	116-1	409-3	120-1	404-3	546-2	180-3	529-2	334-3	527-2	150-3	437-2	302-3	476-2	139-3	396-2	219-3	379-2	116-3	287-2																												
0.500	785-2	633-3	796-2	259-3	796-2	344-3	508-2	141-3	433-2	327-3	519-2	136-3	411-2	293-3	479-2	123-3	368-2	216-3	383-2	104-3	272-2																												
0.550	107-1	945-3	108-1	319-3	108-1	554-3	793-2	186-3	633-2	391-3	646-2	132-3	447-2	308-3	520-2	107-3	352-2	257-3	394-2	939-4	294-2																												
0.600	159-1	161-2	170-1	459-3	169-1	691-3	708-2	196-3	724-2	449-3	497-2	127-3	470-2	360-3	455-2	104-3	377-2	300-3	377-2	937-4	314-2																												
0.650	529-2	117-2	101-1	283-3	113-1	809-3	731-2	195-3	782-2	544-3	515-2	132-3	525-2	444-3	375-2	109-3	429-2	342-3	341-2	910																													

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111H124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

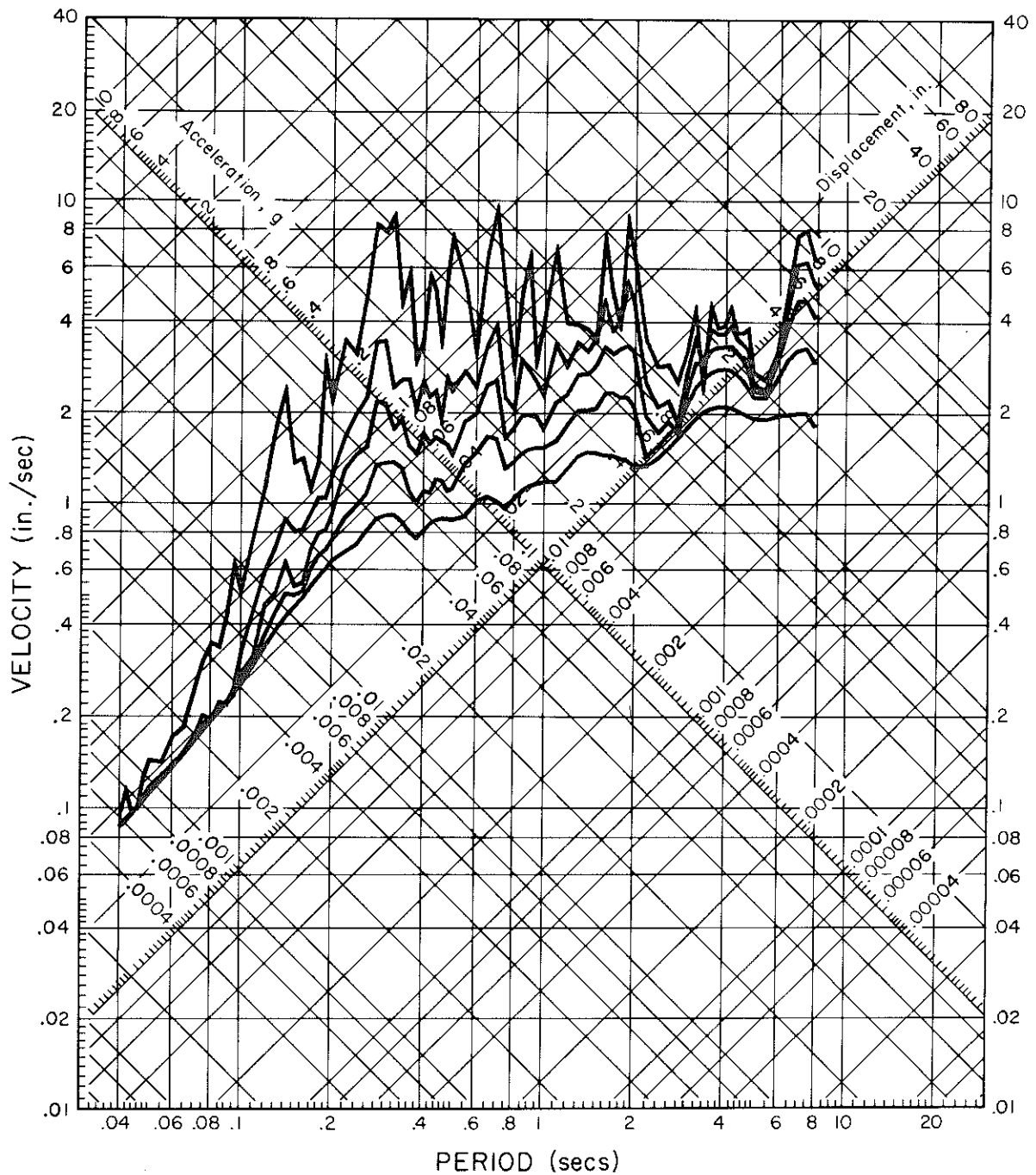


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP S90H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



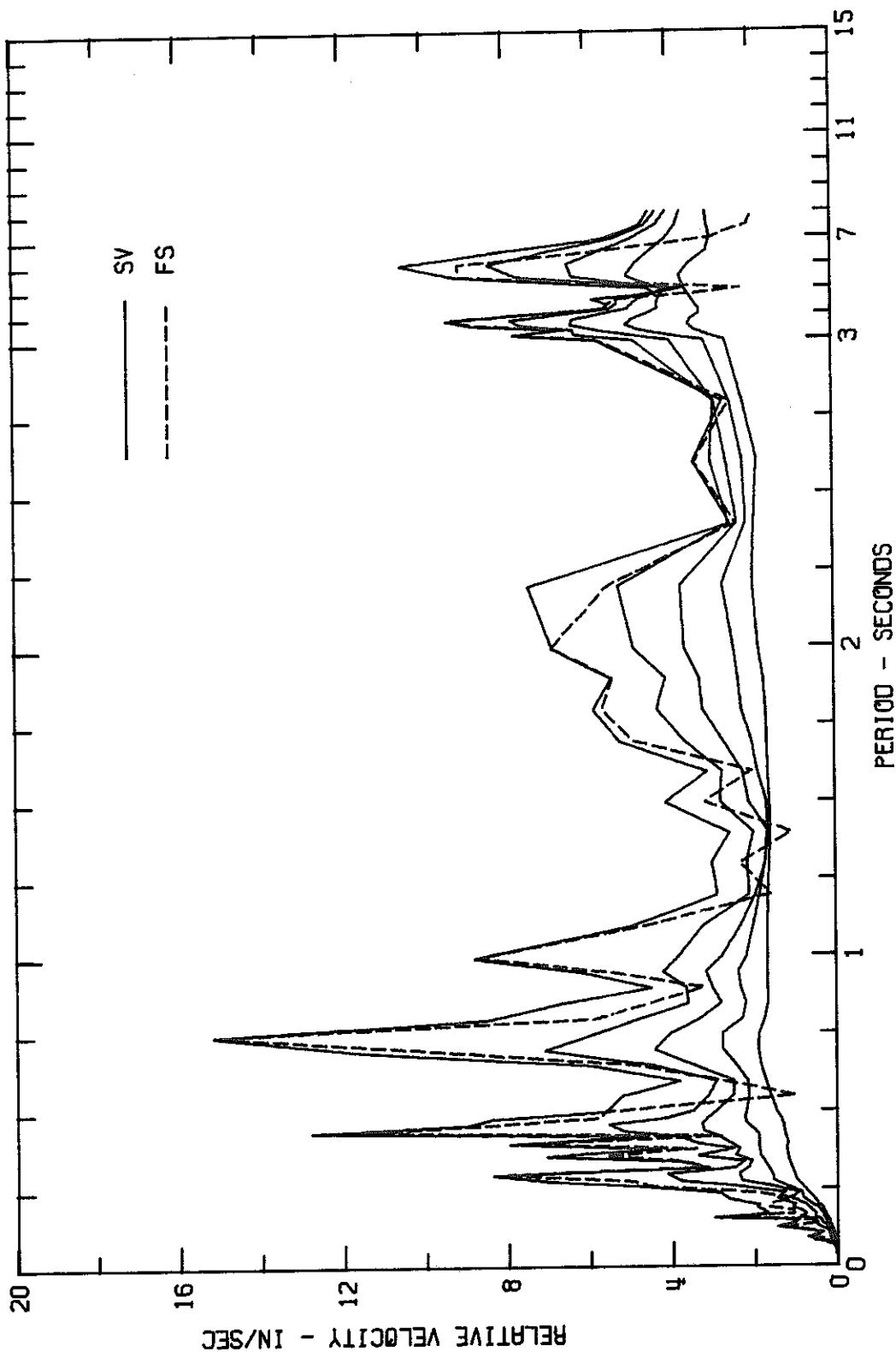
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 1111124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	148-4	602-6	235-4	384-4	945-4	562-6	143-4	359-4	882-4	559-6	142-4	357-4	879-4	557-6	138-4	356-4	876-4
0.042	178-4	771-6	396-4	447-4	115-3	619-6	167-4	359-4	926-4	610-6	159-4	354-4	913-4	612-6	151-4	355-4	915-4
0.044	137-4	686-6	244-4	362-4	980-4	676-6	179-4	357-4	965-4	672-6	172-4	355-4	960-4	676-6	163-4	357-4	965-4
0.046	231-4	732-6	304-4	434-4	100-3	747-6	192-4	361-4	102-3	747-6	182-4	361-4	102-3	746-6	176-4	361-4	101-3
0.048	133-4	978-6	467-4	434-4	128-3	841-6	241-4	373-4	110-3	830-6	211-4	368-4	108-3	823-6	193-4	366-4	107-3
0.050	214-4	115-5	546-4	471-4	144-3	940-6	276-4	384-4	118-3	918-6	238-4	375-4	115-3	904-6	213-4	370-4	113-3
0.055	332-4	125-5	586-4	423-4	143-3	113-5	287-4	384-4	129-3	112-5	278-4	378-4	128-3	110-5	263-4	375-4	126-3
0.060	584-4	166-5	682-4	472-4	174-3	134-5	358-4	383-4	141-3	133-5	327-4	378-4	139-3	133-5	314-4	378-4	139-3
0.065	128-3	192-5	139-3	466-4	186-3	158-5	530-4	383-4	153-3	159-5	445-4	388-4	154-3	159-5	395-4	385-4	153-3
0.070	457-4	271-5	168-3	566-4	243-3	186-5	656-4	390-4	167-3	191-5	524-4	399-4	171-3	189-5	459-4	396-4	169-3
0.075	202-3	367-5	208-3	667-4	307-3	244-5	921-4	443-4	204-3	228-5	714-4	416-4	191-3	221-5	574-4	404-4	185-3
0.080	231-3	448-5	266-3	717-4	352-3	249-5	855-4	398-4	196-3	255-5	750-4	407-4	200-3	254-5	669-4	405-4	199-3
0.085	167-3	462-5	259-3	654-4	341-3	304-5	113-3	431-4	225-3	295-5	806-4	417-4	218-3	289-5	751-4	409-4	213-3
0.090	224-3	630-5	342-3	796-4	440-3	315-5	116-3	398-4	220-3	318-5	935-4	403-4	222-3	324-5	864-4	409-4	226-3
0.095	382-3	969-5	582-3	109-3	641-3	379-5	163-3	429-4	250-3	356-5	121-3	404-4	235-3	367-5	997-4	416-4	242-3
0.100	429-3	829-5	441-3	848-4	521-3	516-5	181-3	527-4	324-3	445-5	155-3	458-4	279-3	424-5	121-3	432-4	266-3
0.110	297-3	139-4	686-3	117-3	795-3	796-5	377-3	673-4	455-3	560-5	244-3	471-4	319-3	531-5	197-3	450-4	303-3
0.120	572-3	321-4	109-2	157-3	115-2	116-4	550-3	826-4	609-3	904-5	403-3	647-4	473-3	712-5	280-3	563-4	446-3
0.130	169-2	374-4	174-2	226-3	180-2	151-4	652-3	915-4	730-3	106-4	472-3	651-4	516-3	923-5	310-3	563-4	446-3
0.140	182-2	537-4	220-2	280-3	241-2	201-4	712-3	105-3	902-3	145-4	454-3	768-4	652-3	114-4	342-3	604-4	511-3
0.150	629-3	328-4	125-2	149-3	137-2	195-4	722-3	884-4	818-3	129-4	491-3	593-4	542-3	120-4	382-3	555-4	504-3
0.160	105-2	361-4	133-2	144-3	142-2	212-4	720-3	848-4	835-3	141-4	463-3	570-4	555-3	132-4	405-3	538-4	521-3
0.170	502-3	304-4	100-2	107-3	112-2	255-4	817-3	901-4	943-3	195-4	539-3	696-4	720-3	167-4	461-3	593-4	617-3
0.180	112-2	395-4	125-2	124-3	137-2	304-4	947-3	965-4	106-2	232-4	711-3	736-4	813-3	196-4	552-3	625-4	687-3
0.190	285-2	912-4	287-2	258-3	301-2	319-4	917-3	903-4	105-2	250-4	726-3	712-4	827-3	215-4	615-3	619-4	712-3
0.200	188-2	710-4	225-2	181-3	223-2	398-4	108-2	102-3	125-2	299-4	811-3	778-4	942-3	246-4	681-3	626-4	773-3
0.220	311-2	124-3	343-2	262-3	354-2	593-4	154-2	124-3	169-2	462-4	116-2	966-4	132-2	319-4	828-3	702-4	913-3
0.240	809-3	121-3	299-2	215-3	317-2	774-4	183-2	137-3	202-2	561-4	123-2	998-4	147-2	380-4	814-3	681-4	996-3
0.260	441-2	210-3	500-2	318-3	509-2	952-4	233-2	143-3	230-2	650-4	155-2	974-4	157-2	454-4	106-2	706-4	109-2
0.280	766-2	382-3	836-2	438-3	858-2	156-3	356-2	202-3	350-2	988-4	225-2	131-3	221-2	603-4	135-2	821-4	135-2
0.300	525-2	383-3	797-2	436-3	804-2	168-3	352-2	191-3	352-2	104-3	221-2	118-3	218-2	659-4	139-2	757-4	138-2
0.320	900-2	466-3	906-2	465-3	915-2	125-3	251-2	125-3	247-2	919-4	171-2	909-4	180-2	706-4	138-2	714-4	138-2
0.340	364-2	253-3	469-2	224-3	468-2	141-3	258-2	125-3	261-2	105-3	199-2	935-4	195-2	716-4	139-2	649-4	132-2
0.360	531-2	340-3	588-2	269-3	595-2	149-3	268-2	118-3	261-2	900-4	161-2	716-4	157-2	640-4	121-2	514-4	111-2
0.380	127-2	182-3	309-2	129-3	301-2	126-3	220-2	899-4	208-2	890-4	149-2	635-4	147-2	614-4	103-2	447-4	101-2
0.400	292-2	224-3	363-2	143-3	353-2	164-3	269-2	105-3	257-2	111-3	180-2	714-4	174-2	708-4	113-2	460-4	111-2
0.420	555-2	388-3	561-2	225-3	580-2	153-3	234-2	896-4	230-2	107-3	157-2	620-4	160-2	734-4	111-2	435-4	109-2
0.440	516-2	361-3	512-2	190-3	516-2	168-3	243-2	890-4	240-2	118-3	171-2	632-4	169-2	852-4	119-2	458-4	121-2
0.460	156-2	260-3	378-2	125-3	355-2	141-3	204-2	688-4	193-2	121-3	162-2	578-4	163-2	880-4	116-2	434-4	120-2
0.480	350-2	441-3	580-2	196-3	578-2	203-3	258-2	905-4	266-2	121-3	172-2	543-4	159-2	855-4	119-2	387-4	111-2
0.500	775-2	619-3	774-2	253-3	778-2	190-3	230-2	783-4	239-2	117-3	152-2	479-4	147-2	909-4	127-2	376-4	114-2
0.550	282-2	487-3	564-2	164-3	557-2	244-3	294-2	829-4	279-2	167-3	179-2	567-4	191-2	120-3	138-2	412-4	137-2
0.600	102-2	310-3	355-2	883-4	325-2	235-3	264-2	671-4	247-2	194-3	205-2	555-4	203-2	143-3	153-2	413-4	150-2
0.650	606-2	700-3	663-2	169-3	677-2	351-3	357-2	852-4	340-2	261-3	259-2	635-4	252-2	175-3	178-2	433-4	169-2
0.700	918-2	106-2	939-2	222-3	957-2	446-3	418-2	934-4	400-2	290-3	267-2	607-4	260-2	185-3	175-2	394-4	166-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIII124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP 500W
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

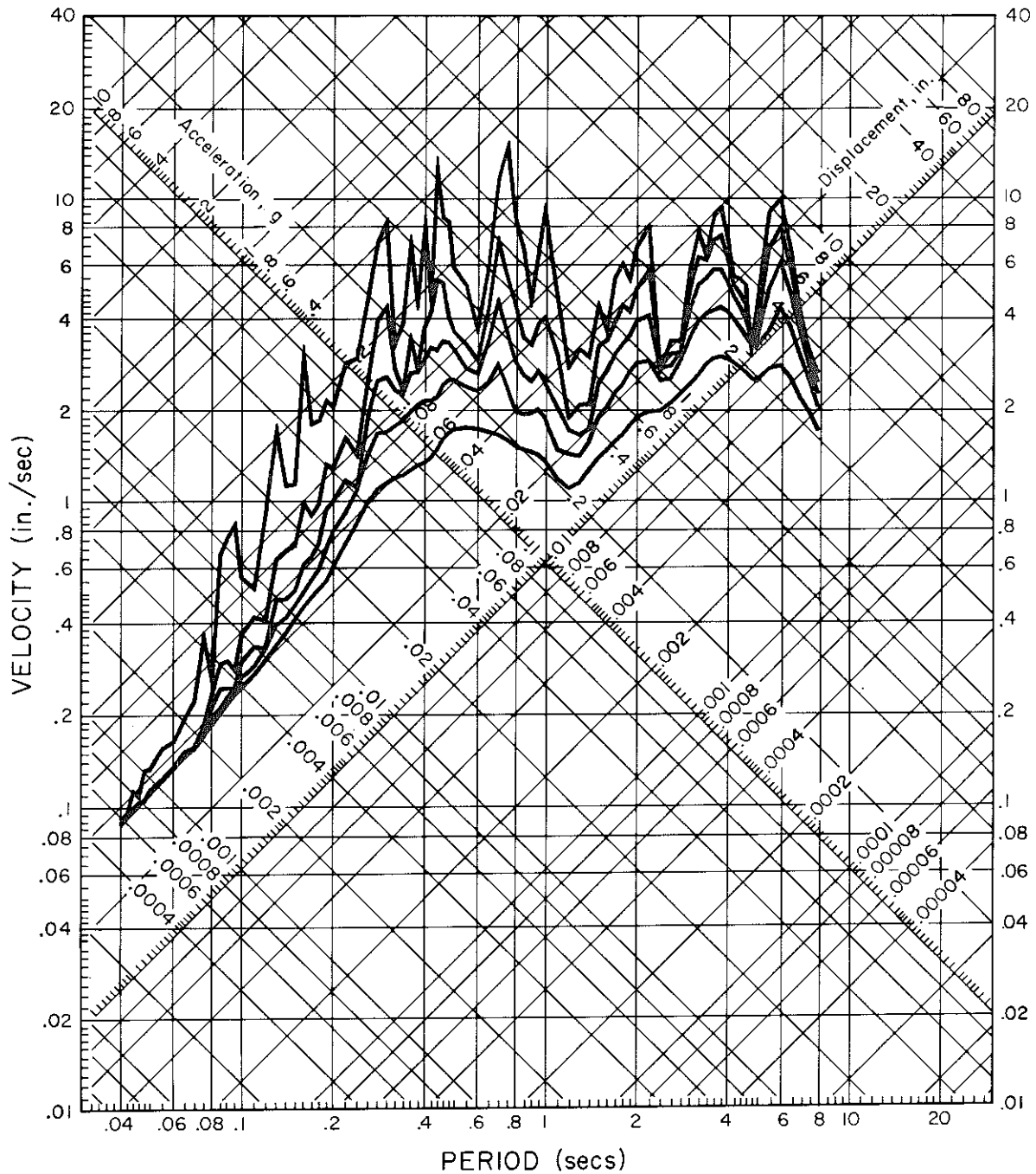


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP S00W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



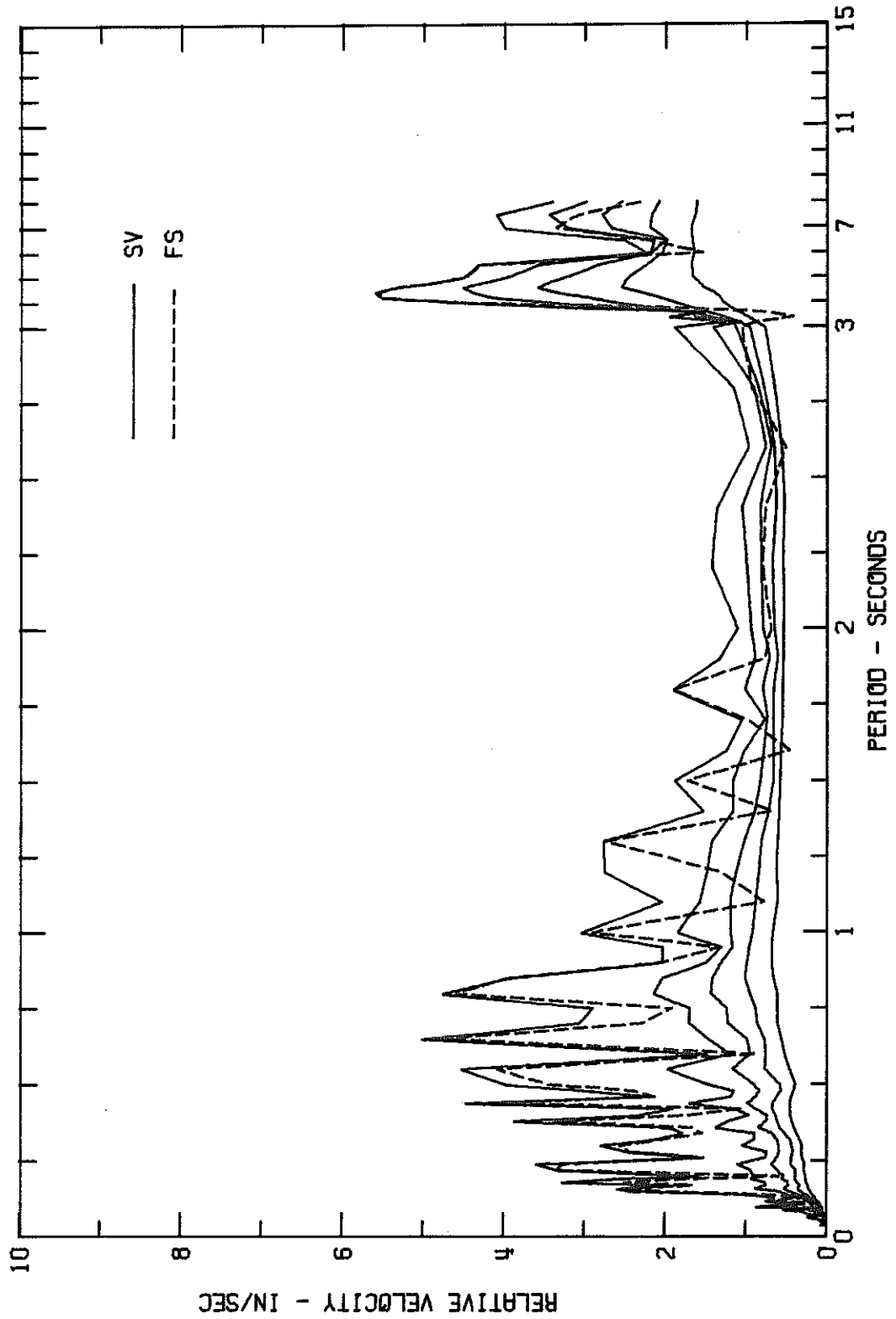
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PERCENT				DAMPING = 20 PER CENT					
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
0.040	283-4	575-6	179-4	367-4	904-4	560-6	141-4	358-4	880-4	880-4	552-6	143-4	353-4	867-4	554-6	144-4	354-4	870-4	556-6	140-4	356-4	873-4
0.042	289-4	632-6	203-4	366-4	945-4	624-6	166-4	361-4	933-4	933-4	617-6	163-4	357-4	923-4	614-6	161-4	356-4	918-4	614-6	154-4	356-4	919-4
0.044	524-4	785-6	396-4	415-4	112-3	690-6	184-4	364-4	986-4	986-4	681-6	186-4	359-4	972-4	676-6	179-4	357-4	966-4	675-6	169-4	357-4	964-4
0.046	333-4	785-6	342-4	379-4	107-3	753-6	239-4	364-4	102-3	104-3	742-6	211-4	358-4	101-3	740-6	196-4	357-4	101-3	739-6	184-4	357-4	101-3
0.048	290-4	100-5	466-4	446-4	131-3	798-6	244-4	354-4	104-3	104-3	799-6	224-4	354-4	104-3	806-6	213-4	357-4	105-3	806-6	202-4	358-4	105-3
0.050	463-4	105-5	509-4	430-4	132-3	898-6	249-4	367-4	112-3	112-3	880-6	223-4	360-4	110-3	877-6	228-4	359-4	110-3	877-6	219-4	359-4	110-3
0.055	376-4	135-5	703-4	459-4	155-3	107-5	386-4	363-4	122-3	122-3	107-5	320-4	362-4	122-3	106-5	290-4	360-4	121-3	106-5	266-4	361-4	121-3
0.060	221-4	155-5	807-4	442-4	162-3	129-5	393-4	367-4	135-3	135-3	127-5	362-4	363-4	133-3	127-5	338-4	362-4	133-3	127-5	311-4	362-4	133-3
0.065	808-5	200-5	924-4	486-4	194-3	156-5	515-4	378-4	151-3	151-3	153-5	393-4	372-4	148-3	150-5	380-4	364-4	145-3	150-5	364-4	364-4	145-3
0.070	591-4	248-5	141-3	517-4	222-3	173-5	605-4	361-4	155-3	155-3	170-5	511-4	356-4	153-3	171-5	452-4	358-4	154-3	174-5	417-4	365-4	156-3
0.075	171-3	429-5	283-3	780-4	359-3	218-5	892-4	398-4	182-3	182-3	210-5	734-4	381-4	176-3	200-5	584-4	365-4	168-3	202-5	473-4	370-4	170-3
0.080	164-3	331-5	158-3	530-4	260-3	299-5	106-3	477-4	235-3	235-3	273-5	845-4	435-4	214-3	244-5	700-4	392-4	191-3	235-5	559-4	378-4	184-3
0.085	534-3	913-5	589-3	129-3	675-3	397-5	141-3	560-4	293-3	293-3	328-5	100-3	466-4	243-3	328-5	801-4	403-4	210-3	271-5	652-4	386-4	200-3
0.090	368-3	110-4	625-3	139-3	768-3	428-5	181-3	541-4	299-3	299-3	349-5	115-3	442-4	244-3	327-5	926-4	413-4	228-3	309-5	746-4	394-4	216-3
0.095	682-3	127-4	740-3	144-3	841-3	422-5	194-3	477-4	279-3	279-3	367-5	143-3	417-4	242-3	370-5	109-3	420-4	244-3	350-5	860-4	401-4	231-3
0.100	474-3	893-5	507-3	914-4	561-3	587-5	213-3	603-4	365-3	365-3	475-5	153-3	484-4	298-3	422-5	119-3	434-4	265-3	389-5	957-4	404-4	244-3
0.110	372-3	904-5	382-3	764-4	516-3	730-5	230-3	618-4	417-3	417-3	582-5</											

IIH124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP 500W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT																	
DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
DAMPING = 20 PER CENT																	
0.75	151-1	181-2	152-1	330-3	152-1	662-3	591-2	120-3	554-2	435-3	404-2	798-4	364-2	284-3	279-2	528-4	238-2
0.80	588-2	109-2	852-2	174-3	856-2	568-3	483-2	906-4	446-2	369-3	332-2	595-4	290-2	253-3	229-2	414-4	198-2
0.85	453-2	918-3	677-2	130-3	679-2	471-3	360-2	669-4	348-2	354-3	280-2	504-4	261-2	263-3	221-2	381-4	194-2
0.90	321-2	661-3	448-2	834-4	461-2	472-3	367-2	597-4	329-2	357-3	302-2	454-4	249-2	279-3	235-2	362-4	195-2
0.95	550-2	999-3	616-2	113-3	660-2	587-3	422-2	667-4	388-2	408-3	319-2	465-4	270-2	305-3	241-2	354-4	201-2
1.00	872-2	147-2	884-2	150-3	926-2	648-3	384-2	663-4	407-2	394-3	278-2	405-4	247-2	300-3	219-2	316-4	189-2
1.10	464-2	829-3	499-2	700-4	473-2	535-3	322-2	452-4	306-2	358-3	231-2	304-4	204-2	259-3	200-2	227-4	148-2
1.20	159-2	530-3	289-2	376-4	277-2	361-3	210-2	256-4	189-2	329-3	194-2	235-4	172-2	274-3	184-2	199-4	143-2
1.30	233-2	660-3	303-2	399-4	319-2	434-3	216-2	263-4	209-2	343-3	170-2	209-4	166-2	292-3	170-2	180-4	141-2
1.40	106-2	669-3	256-2	349-4	300-2	466-3	199-2	243-4	205-2	388-3	163-2	203-4	174-2	353-3	165-2	188-4	158-2
1.50	317-2	106-2	414-2	485-4	447-2	366-2	783-3	281-2	356-4	328-2	592-3	212-2	270-4	456-3	169-2	211-4	191-2
1.60	202-2	932-3	311-2	372-4	366-2	872-3	274-2	348-4	342-2	694-3	226-2	278-4	272-2	524-3	190-2	213-4	206-2
1.70	492-2	149-2	527-2	528-4	552-2	105-2	368-2	374-4	391-2	836-3	274-2	297-4	309-2	623-3	204-2	223-4	230-2
1.80	566-2	176-2	588-2	556-4	615-2	128-2	432-2	405-4	448-2	951-3	323-2	301-4	332-2	699-3	229-2	223-4	244-2
1.90	540-2	164-2	542-2	465-4	542-2	128-2	411-2	363-4	424-2	107-2	330-2	307-4	356-2	811-3	237-2	233-4	268-2
2.00	689-2	221-2	688-2	566-4	695-2	161-2	490-2	412-4	506-2	126-2	367-2	324-4	386-2	913-3	247-2	238-4	286-2
2.20	551-2	285-2	746-2	604-4	816-2	204-2	526-2	432-4	584-2	144-2	374-2	307-4	412-2	101-2	272-2	220-4	291-2
2.40	237-2	103-2	251-2	184-4	272-2	106-2	255-2	190-4	280-2	105-2	235-2	187-4	275-2	959-3	212-2	173-4	251-2
2.60	338-2	141-2	340-2	213-4	340-2	127-2	298-2	272-4	308-2	116-2	260-2	176-4	281-2	131-2	253-2	174-4	293-2
2.80	251-2	150-2	267-2	196-4	337-2	138-2	289-2	180-4	310-2	139-2	291-2	183-4	314-2	131-2	253-2	174-4	293-2
3.00	572-2	274-2	574-2	311-4	574-2	239-2	486-2	272-4	502-2	205-2	398-2	234-4	430-2	167-2	315-2	193-4	350-2
3.20	775-2	396-2	779-2	396-4	779-2	328-2	626-2	328-4	645-2	266-2	498-2	267-4	522-2	202-2	408-2	205-4	396-2
3.40	651-2	354-2	655-2	313-4	655-2	340-2	632-2	301-4	629-2	296-2	575-2	263-4	548-2	226-2	473-2	204-4	418-2
3.60	878-2	505-2	882-2	399-4	882-2	422-2	761-2	333-4	737-2	336-2	637-2	267-4	587-2	245-2	502-2	198-4	429-2
3.80	938-2	569-2	941-2	403-4	941-2	458-2	783-2	325-4	758-2	352-2	632-2	251-4	583-2	266-2	487-2	193-4	439-2
4.00	744-2	475-2	746-2	303-4	746-2	406-2	658-2	259-4	638-2	338-2	561-2	217-4	531-2	270-2	448-2	176-4	425-2
4.20	551-2	369-2	553-2	214-4	553-2	346-2	539-2	200-4	518-2	318-2	497-2	185-4	475-2	267-2	425-2	158-4	400-2
4.40	542-2	381-2	544-2	201-4	544-2	340-2	523-2	180-4	486-2	307-2	485-2	163-4	439-2	263-2	424-2	142-4	375-2
4.60	518-2	380-2	585-2	183-4	519-2	329-2	521-2	159-4	449-2	292-2	469-2	142-4	399-2	256-2	420-2	128-4	350-2
4.80	322-2	245-2	428-2	109-4	321-2	255-2	424-2	113-4	334-2	264-2	426-2	118-4	346-2	252-2	413-2	116-4	330-2
5.00	221-2	346-2	449-2	141-4	435-2	294-2	365-2	120-4	370-2	267-2	400-2	110-4	335-2	259-2	418-2	110-4	325-2
5.50	907-2	795-2	918-2	268-4	908-2	610-2	770-2	206-4	697-2	444-2	632-2	151-4	507-2	323-2	501-2	112-4	369-2
6.00	913-2	968-2	105-1	275-4	101-1	778-2	838-2	221-4	815-2	592-2	645-2	169-4	620-2	419-2	478-2	123-4	438-2
6.50	563-2	703-2	815-2	170-4	680-2	608-2	693-2	147-4	588-2	502-2	566-2	122-4	485-2	386-2	441-2	970-5	373-2
7.00	295-2	469-2	559-2	980-5	421-2	444-2	535-2	929-5	399-2	402-2	486-2	848-5	361-2	336-2	403-2	723-5	302-2
7.50	205-2	371-2	465-2	675-5	311-2	358-2	452-2	651-5	300-2	336-2	426-2	620-5	281-2	299-2	379-2	567-5	250-2
8.00	188-2	338-2	444-2	541-5	266-2	316-2	426-2	506-5	248-2	290-2	402-2	468-5	228-2	262-2	367-2	443-5	206-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9. 1971 - 0600 PST
IIIIH124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP DOWN
DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

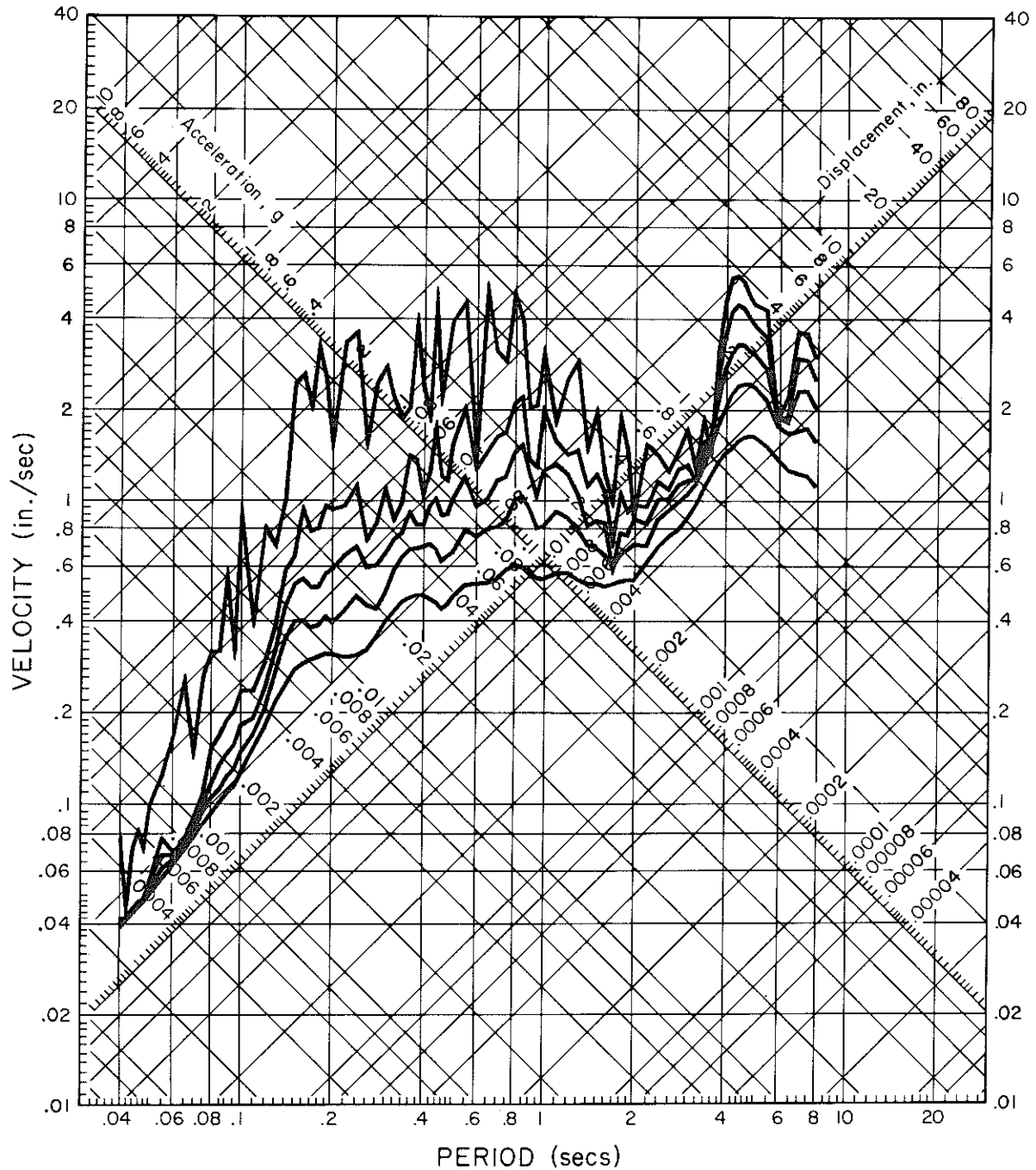


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H124 71.133.0 2600 NUTWOOD AVENUE, BASEMENT, FULLERTON, CAL. COMP DOWN

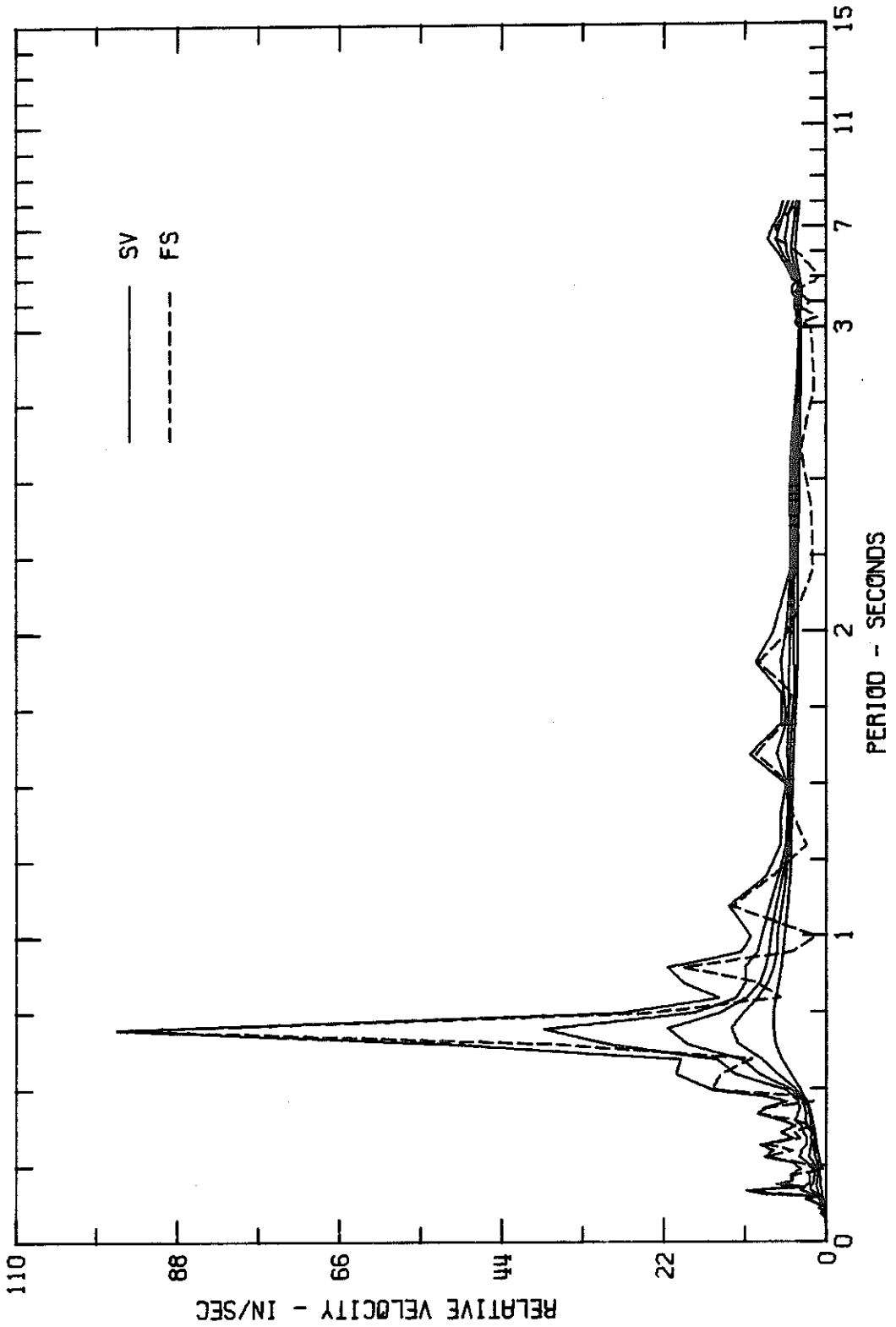
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
599-4	493-6	664-4	315-4	775-4	412-4	255-6	108-4	163-4	401-4	252-6	102-4	160-4	395-4	248-6	934-5	159-4	389-4	599-4	493-6	664-4	315-4	775-4	412-4	255-6	108-4	163-4	401-4	252-6	102-4	160-4	395-4	248-6	934-5	159-4	389-4														
966-5	307-6	228-4	178-4	460-4	418-4	281-6	119-4	163-4	420-4	278-6	111-4	161-4	417-4	274-6	102-4	160-4	410-4	966-5	307-6	228-4	178-4	460-4	418-4	281-6	119-4	163-4	420-4	278-6	111-4	161-4	417-4	274-6	102-4	160-4	410-4														
406-4	505-6	460-4	266-4	721-4	446-4	309-6	125-4	163-4	441-4	306-6	119-4	162-4	437-4	302-6	111-4	160-4	431-4	406-4	505-6	460-4	266-4	721-4	446-4	309-6	125-4	163-4	441-4	306-6	119-4	162-4	437-4	302-6	111-4	160-4	431-4														
313-4	595-6	469-4	288-4	814-4	473-4	346-6	146-4	167-4	473-4	346-6	146-4	162-4	459-4	331-6	128-4	162-4	452-4	313-4	595-6	469-4	288-4	814-4	473-4	346-6	146-4	167-4	473-4	346-6	146-4	162-4	459-4	331-6	128-4	162-4	452-4														
461-4	545-6	421-4	242-4	714-4	481-4	367-6	183-4	163-4	481-4	367-6	183-4	166-4	489-4	373-6	140-4	165-4	488-4	461-4	545-6	421-4	242-4	714-4	481-4	367-6	183-4	163-4	481-4	367-6	183-4	166-4	489-4	373-6	140-4	165-4	488-4														
390-4	784-6	684-4	321-4	586-4	549-4	430-6	183-4	175-4	541-4	416-6	161-4	171-4	523-4	398-6	143-4	164-4	500-4	390-4	784-6	684-4	321-4	586-4	549-4	430-6	183-4	175-4	541-4	416-6	161-4	171-4	523-4	398-6	143-4	164-4	500-4														
553-4	109-5	960-4	369-4	124-3	673-6	330-4	227-4	188-4	678-4	534-6	188-4	181-4	611-4	496-6	173-4	170-4	566-4	553-4	109-5	960-4	369-4	124-3	673-6	330-4	227-4	188-4	678-4	534-6	188-4	181-4	611-4	496-6	173-4	170-4	566-4														
119-3	162-5	139-3	461-4	170-3	662-6	335-4	188-4	184-4	679-4	626-6	224-4	178-4	655-4	604-6	206-4	173-4	632-4	119-3	162-5	139-3	461-4	170-3	662-6	335-4	188-4	184-4	679-4	626-6	224-4	178-4	655-4	604-6	206-4	173-4	632-4														
220-3	264-5	240-3	640-4	255-3	770-6	497-4	186-4	180-4	720-4	733-6	294-4	178-4	708-4	725-6	246-4	177-4	701-4	220-3	264-5	240-3	640-4	255-3	770-6	497-4	186-4	180-4	720-4	733-6	294-4	178-4	708-4	725-6	246-4	177-4	701-4														
735-4	165-5	128-3	345-4	148-3	100-5	667-4	208-4	197-4	851-4	907-6	362-4	192-4	814-4	868-6	294-4	183-4	779-4	735-4	165-5	128-3	345-4	148-3	100-5	667-4	208-4	197-4	851-4	907-6	362-4	192-4	814-4	868-6	294-4	183-4	779-4														
070-5	318-5	247-3	578-4	266-3	128-5	813-4	232-4	107-3	119-5	706-4	220-4	110-3	112-5	118-5	439-4	196-4	931-4	070-5	318-5	247-3	578-4	266-3	128-5	813-4	232-4	107-3	119-5	706-4	220-4	110-3	112-5	118-5	439-4	196-4	931-4														
080-5	365-4	402-5	279-3	643-4	316-3	196-5	110-3	343-4	189-3	210-5	111-3	266-4	146-3	177-5	781-4	223-4	201-4	080-5	365-4	402-5	279-3	643-4	316-3	196-5	110-3	343-4	189-3	210-5	111-3	266-4	146-3	177-5	781-4	223-4	201-4														
085-5	748-4	430-5	309-3	609-4	318-3	227-5	121-3	324-4	168-3	181-5	863-4	256-4	134-3	151-5	652-4	218-4	112-3	085-5	748-4	430-5	309-3	609-4	318-3	227-5	121-3	324-4	168-3	181-5	863-4	256-4	134-3	151-5	652-4	218-4	112-3														
090-5	531-3	808-5	540-3	102-3	564-3	271-5	161-3	343-4	189-3	210-5	111-3	266-4	146-3	177-5	781-4	223-4	201-4	090-5	531-3	808-5	540-3	102-3	564-3	271-5	161-3	343-4	189-3	210-5	111-3	266-4	146-3	177-5	781-4	223-4	201-4														
095-5	896-4	494-5	276-3	560-4	327-3	307-5	164-3	348-4	203-3	237-5	121-3	271-4	156-3	197-5	927-4	228-4	211-4	095-5	896-4	494-5	276-3	560-4	327-3	307-5	164-3	348-4	203-3	237-5	121-3	271-4	156-3	197-5	927-4	228-4	211-4														
100-10	644-3	144-4	882-3	148-3	910-3	376-5	180-3	383-4	236-3	289-5	128-3	293-4	182-3	236-5	100-3	783-4	200-4	100-10	644-3	144-4	882-3	148-3	910-3	376-5	180-3	383-4	236-3	289-5	128-3	293-4	182-3	236-5	100-3	783-4	200-4														
110-11	115-3	705-5	375-3	596-4	402-3	414-5	190-3	351-4	236-3	335-5	141-3	285-4	191-3	298-5	107-3	252-4	170-3	110-11	115-3	705-5	375-3	596-4	402-3	414-5	190-3	351-4	236-3	335-5	140-3	278-4	206-3	343-5	120-3	255-4	179-3														
120-120	678-3	155-4	763-3	110-3	813-3	557-5	246-3	393-4	291-3	460-5	168-3	324-4	241-3	393-5	140-3	278-4	206-3	120-120	678-3	155-4	763-3	110-3	813-3	557-5	246-3	393-4	291-3	460-5	168-3	324-4	241-3	393-5	140-3	278-4	206-3														
130-130	264-3	146-4	652-3	883-4	707-3	799-5	325-3	483-4	386-3	661-5	255-3	404-4	319-3	561-5	204-3	341-4	271-3	130-130	264-3	146-4	652-3	883-4	707-3	799-5	325-3	483-4	386-3	661-5	204-3	341-4	271-3	449-5	151-3	282-4	217-3														
140-140	821-3	227-4	984-3	118-3	102-2	131-4	516-3	687-4	589-3	100-4	373-3	526-4	449-3	780-5	273-3	405-4	350-3	140-140	821-3	227-4	984-3	118-3	102-2	131-4	516-3	687-4	589-3	100-4	373-3	526-4	449-3	780-5	273-3	405-4	350-3														
150-150	214-2	589-4	244-2	268-3	247-2	156-4	615-3	716-4	657-3	126-4	484-3	572-4	531-3	957-5	343-3	436-4	401-3	150-150	214-2	589-4	244-2	268-3	247-2	156-4	615-3	716-4	657-3	126-4	484-3	572-4	531-3	957-5	343-3	436-4	401-3														
160-160	244-2	670-4	260-2	267-3	263-2	239-4	899-3	956-4	942-3	140-4	538-3	569-4	553-3	102-4	367-3	412-4	402-3	160-160	244-2	670-4	260-2	267-3	263-2	239-4	899-3	956-4	942-3	140-4	538-3	569-4	553-3	102-4	367-3	412-4	402-3														
170-170	166-2	560-4	199-2	198-3	207-2	213-4	750-3	759-4	788-3	139-4	490-3	500-4	515-3	102-4	378-3	373-4	380-3	170-170	166-2	560-4	199-2	198-3	207-2	213-4	750-3	759-4	788-3	139-4	490-3	500-4	515-3	102-4	378-3	373-4	380-3														
180-180	252-2	941-4	329-2	297-3	328-2	231-4	778-3	733-4	808-3	148-4	481-3	475-4	519-3	111-4	408-3	359-4	415-3	180-180	252-2	941-4	329-2	297-3	328-2	231-4	778-3	733-4	808-3	148-4	481-3	475-4	519-3	111-4	408-3	359-4	415-3														
190-190	172-2	773-4	255-2	219-3	255-2	292-4	949-3	830-4	966-3	173-4	563-3	498-4	573-3	125-4	408-3	359-4	415-3	190-190	172-2	773-4	255-2	219-3	255-2	292-4	949-3	830-4	966-3	173-4	563-3	498-4	573-3	125-4	408-3	359-4	415-3														
200-200	335-2	497-4	159-2	127-3	156-2	297-4	907-3	757-4	933-3	189-4	625-3	493-4	596-3	126-4	399-3	336-4	395-3	200-200	335-2	497-4	159-2	127-3	156-2	297-4	907-3	757-4	933-3	189-4	625-3	493-4	596-3	126-4	399-3	336-4	395-3														
210-210	335-2	118-3	335-2	249-3	337-2	430-4	956-2	714-4	963-3	231-4	625-3	493-4	596-3	126-4	399-3	336-4	395-3	210-210	335-2	118-3	335-2	249-3	337-2	430-4	956-2	714-4	963-3	231-4	625-3	493-4	596-3	126-4	399-3	336-4	395-3														
220-220	327-2	138-3	360-2	246-3	362-2	305-4	111-2	763-4	112-2	268-4	620-3	373-4	603-3	187-4	445-3	297-4	452-3	220-220	327-2	138-3	360-2	246-3	362-2	305-4	111-2	763-4	112-2	268-4	620-3	373-4	603-3	187-4	445-3	297-4	452-3														
230-230	152-2	651-4	154-2	985-4	157-2	305-4	762-3	463-4	737-3	249-4	620-3	373-4	603-3	187-4	445-3	297-4	452-3	230-230	152-2	651-4	154-2	985-4	157-2	305-4	762-3	463-4	737-3	249-4	620-3	373-4	603-3	187-4	445-3	297-4	452-3														
240-240	245-2	110-3	246-2	144-3	248-2	375-4	745-3	492-4	842-3	272-4	592-3	352-4	611-3	196-4	428-3	259-4	439-3	240-240	245-2	110-3	246-2	144-3	248-2	375-4	745-3	492-4	842-3	272-4	592-3	352-4	611-3	196-4	428-3	259-4	439-3														
250-250	257-2	133-3	280-2	152-3	280-2	527-4	105-2	600-4	110-2	320-4	607-3	368-4	670-3	238-4	446-3	277-4	498-3	250-250	257-2	133-3	280-2	152-3	280-2	527-4	105-2	600-4	110-2	320-4	607-3	368-4	670-3	238-4	446-3	277-4	498-3														
260-260	204-2	110-3	214-2	110-3	217-2	439-4	906-3	441-4	863-3	378-4	628-3	377-4	742-3	302-4	463-3	304-4	593-3	260-260	204-2	110-3	214-2	110-3	217-2	439-4	906-3	441-4	863-3	378-4	628-3	377-4	742-3	302-4	463-3	304-4	593-3														
270-270	154-2	101-3	178-2	901-4	188-2	539-4	890-3	479-4	996-3	422-4	680-3	376-4	779-3	353-4	632-3	317-4	653-3	270-270	154-2	101-3	178-2	901-4	188-2	539-4	890-3	479-4	996-3	422-4	680-3	376-4	779-3	353-4	632-3	317-4	653-3														

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

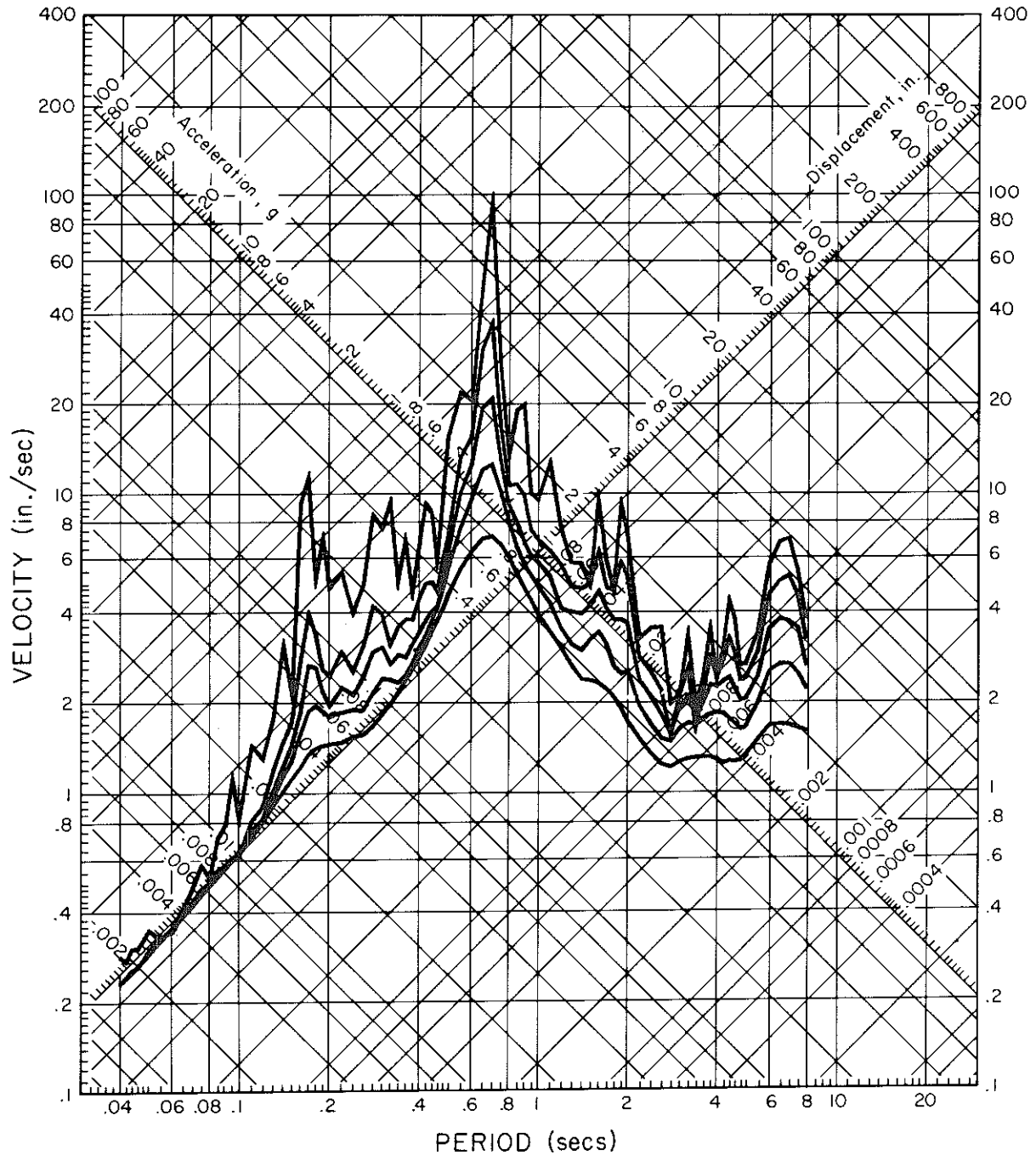


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



111H125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

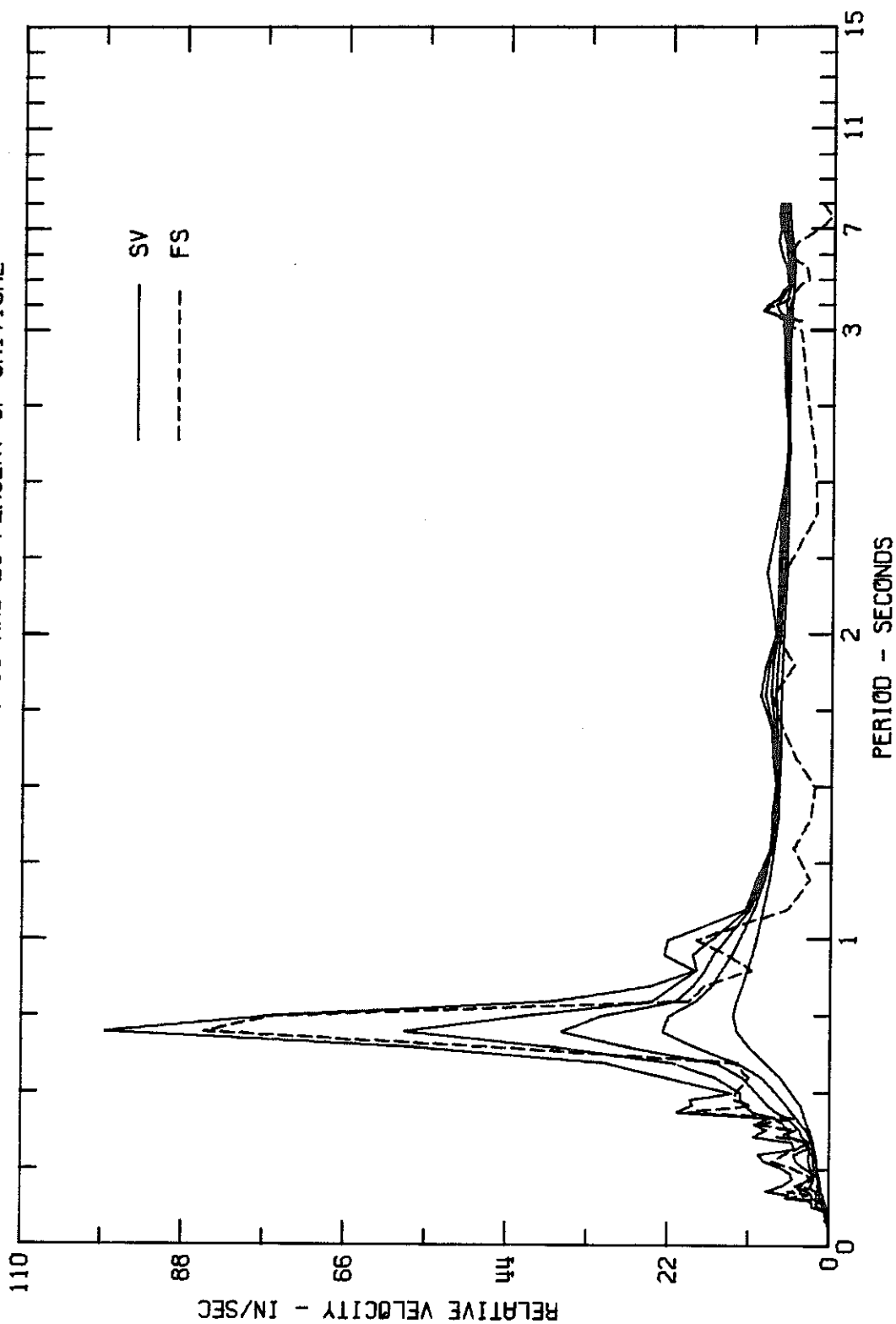
DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD
0.75	238-1	324-2	283-1	590-3	272-1	201-2	178-1	366-3	168-1	154-2	143-1	283-3	129-1	121-2
0.80	618-2	172-2	145-1	275-3	135-1	136-2	121-1	218-3	107-1	116-2	107-1	187-3	917-2	102-2
0.85	954-2	258-2	194-1	366-3	191-1	145-2	109-1	205-3	107-1	107-2	899-2	153-3	792-2	889-3
0.90	194-1	286-2	214-1	362-3	200-1	140-2	110-1	178-3	983-2	975-3	820-2	124-3	680-2	819-3
0.95	453-2	151-2	114-1	171-3	100-1	113-2	925-2	128-3	749-2	922-3	772-2	105-3	610-2	799-3
1.00	149-2	151-2	103-1	155-3	954-2	111-2	874-2	113-3	698-2	931-3	754-2	958-4	585-2	776-3
1.10	128-1	224-2	133-1	189-3	128-1	111-2	768-2	945-4	637-2	916-3	766-2	782-4	523-2	747-3
1.20	725-2	143-2	808-2	102-3	752-2	109-2	641-2	775-4	571-2	786-3	586-2	562-4	411-2	672-3
1.30	272-2	120-2	624-2	730-4	583-2	101-2	543-2	611-4	488-2	829-3	516-2	505-4	401-2	645-3
1.40	467-2	129-2	621-2	674-4	579-2	107-2	527-2	559-4	480-2	879-3	514-2	461-4	394-2	666-3
1.50	498-2	117-2	543-2	532-4	491-2	118-2	542-2	541-4	498-2	101-2	527-2	462-4	423-2	776-3
1.60	961-2	247-2	103-1	198-4	571-2	163-2	676-2	652-4	640-2	120-2	532-2	482-4	471-2	875-3
1.70	577-2	162-2	612-2	574-4	599-2	130-2	544-2	463-4	483-2	110-2	506-2	394-4	408-2	846-3
1.80	473-2	136-2	605-2	429-4	474-2	135-2	587-2	428-4	473-2	107-2	507-2	341-4	376-2	752-3
1.90	924-2	281-2	961-2	796-4	929-2	177-2	619-2	503-4	586-2	113-2	495-2	325-4	376-2	752-3
2.00	519-2	236-2	718-2	604-4	742-2	168-2	549-2	432-4	530-2	116-2	494-2	301-4	367-2	811-3
2.20	189-2	114-2	487-2	240-4	325-2	984-3	476-2	208-4	281-2	825-3	457-2	176-4	235-2	678-3
2.40	202-2	134-2	505-2	239-4	353-2	961-3	462-2	171-4	251-2	790-3	419-2	144-4	208-2	643-3
2.60	352-2	146-2	482-2	222-4	354-2	904-3	440-2	136-4	218-2	748-3	411-2	116-4	180-2	625-3
2.80	167-2	882-3	401-2	115-4	198-2	689-3	367-2	905-5	154-2	696-3	348-2	913-5	156-2	659-3
3.00	215-2	103-2	373-2	117-4	216-2	102-2	356-2	116-4	213-2	921-3	343-2	105-4	193-2	780-3
3.20	333-2	172-2	424-2	172-4	339-2	133-2	376-2	133-4	262-2	106-2	367-2	106-4	209-2	868-3
3.40	124-2	104-2	404-2	921-5	192-2	881-3	394-2	780-5	162-2	966-3	381-2	859-5	178-2	911-3
3.60	239-2	136-2	411-2	109-4	241-2	123-2	398-2	977-5	216-2	113-2	383-2	903-5	198-2	100-2
3.80	349-2	215-2	438-2	152-4	355-2	171-2	384-2	121-4	283-2	138-2	370-2	986-5	229-2	110-2
4.00	230-2	151-2	434-2	967-5	237-2	154-2	401-2	990-5	243-2	143-2	368-2	921-5	225-2	117-2
4.20	296-2	202-2	420-2	117-4	302-2	183-2	391-2	106-4	274-2	157-2	364-2	915-5	235-2	122-2
4.40	430-2	306-2	462-2	162-4	438-2	230-2	393-2	121-4	328-2	170-2	359-2	902-5	242-2	123-2
4.60	366-2	276-2	463-2	133-4	378-2	212-2	395-2	102-4	289-2	162-2	342-2	798-5	221-2	124-2
4.80	164-2	203-2	426-2	903-5	266-2	181-2	385-2	810-5	237-2	155-2	375-2	718-5	203-2	124-2
5.00	101-2	212-2	475-2	869-5	267-2	190-2	450-2	783-5	239-2	163-2	423-2	696-5	205-2	131-2
5.50	249-2	301-2	564-2	101-4	344-2	258-2	526-2	880-5	295-2	214-2	487-2	749-5	244-2	175-2
6.00	407-2	550-2	669-2	156-4	576-2	440-2	612-2	125-4	461-2	336-2	546-2	972-5	352-2	242-2
6.50	678-2	708-2	792-2	171-4	685-2	525-2	685-2	127-4	507-2	392-2	569-2	977-5	379-2	277-2
7.00	695-2	782-2	736-2	163-4	702-2	590-2	632-2	123-4	529-2	415-2	531-2	878-5	372-2	299-2
7.50	548-2	655-2	632-2	119-4	549-2	540-2	577-2	985-5	452-2	422-2	506-2	785-5	353-2	297-2
8.00	368-2	483-2	585-2	772-5	379-2	414-2	515-2	664-5	325-2	337-2	442-2	560-5	264-2	282-2

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIH125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL.
DAMPING VALUES ARE 0.2, 5, 10 AND 20 PERCENT OF CRITICAL

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

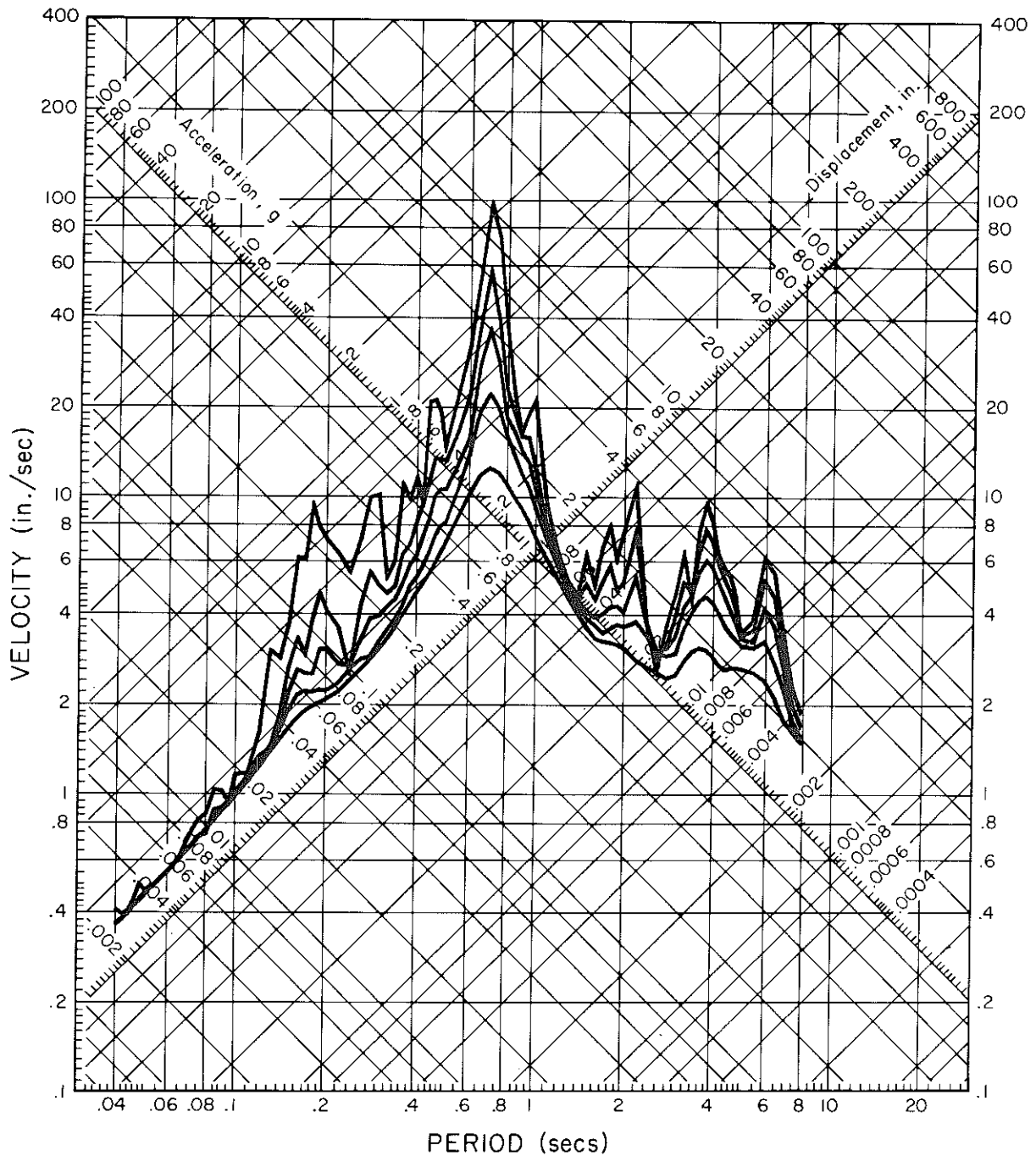


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIH125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP 500H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP 500W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	211-4	260-5	731-4	166-3	408-3	234-5	360-4	149-3	368-3	231-5	374-4	148-3	364-3	231-5	364-4	148-3	363-3
0.042	393-4	263-5	657-4	152-3	394-3	255-5	463-4	148-3	382-3	254-5	419-4	147-3	381-3	255-5	399-4	148-3	382-3
0.044	335-4	283-5	582-4	149-3	405-3	277-5	464-4	146-3	396-3	279-5	436-4	147-3	398-3	280-5	427-4	148-3	420-3
0.046	210-4	325-5	655-4	157-3	444-3	308-5	429-4	149-3	421-3	308-5	443-4	148-3	420-3	307-5	456-4	148-3	420-3
0.048	690-4	381-5	110-3	169-3	499-3	340-5	495-4	150-3	445-3	338-5	483-4	150-3	442-3	336-5	494-4	149-3	440-3
0.050	781-5	379-5	755-4	155-3	476-3	370-5	591-4	151-3	466-3	368-5	552-4	150-3	462-3	366-5	542-4	150-3	460-3
0.055	199-4	441-5	862-4	149-3	504-3	444-5	645-4	150-3	507-3	445-5	657-4	150-3	508-3	444-5	656-4	150-3	508-3
0.060	140-4	529-5	953-4	150-3	554-3	526-5	884-4	149-3	551-3	529-5	773-4	150-3	554-3	531-5	782-4	150-3	556-3
0.065	277-4	625-5	122-3	151-3	604-3	631-5	102-3	152-3	610-3	629-5	961-4	152-3	608-3	627-5	933-4	152-3	606-3
0.070	165-3	804-5	180-3	177-3	721-3	724-5	113-3	151-3	650-3	734-5	110-3	153-3	658-3	734-5	108-3	153-3	659-3
0.075	170-3	973-5	220-3	177-3	815-3	857-5	142-3	156-3	718-3	853-5	121-3	155-3	714-3	849-5	123-3	154-3	711-3
0.080	616-4	109-4	376-3	175-3	860-3	934-5	182-3	149-3	733-3	961-5	149-3	153-3	754-3	973-5	141-3	155-3	764-3
0.085	476-3	140-4	520-3	198-3	103-2	120-4	236-3	170-3	889-3	113-4	178-3	161-3	842-3	111-4	156-3	158-3	827-3
0.090	426-3	147-4	504-3	186-3	102-2	129-4	212-3	163-3	903-3	129-4	182-3	163-3	901-3	126-4	173-3	160-3	886-3
0.095	174-3	140-4	370-3	159-3	932-3	143-4	240-3	162-3	950-3	143-4	222-3	162-3	950-3	142-4	205-3	161-3	941-3
0.100	127-3	185-4	461-3	189-3	116-2	162-4	326-3	166-3	102-2	158-4	277-3	162-3	997-3	158-4	244-3	161-3	993-3
0.110	200-4	207-4	478-3	175-3	118-2	202-4	396-3	170-3	115-2	195-4	366-3	164-3	111-2	195-4	313-3	164-3	111-2
0.120	723-3	309-4	860-3	220-3	162-2	256-4	535-3	181-3	134-2	248-4	433-3	176-3	129-2	243-4	360-3	172-3	127-2
0.130	150-2	631-4	234-2	382-3	305-2	294-4	860-3	178-3	142-2	301-4	573-3	182-3	145-2	297-4	478-3	181-3	143-2
0.140	181-2	638-4	231-2	333-3	286-2	407-4	101-2	212-3	183-2	364-4	743-3	190-3	163-2	364-4	648-3	191-3	163-2
0.150	127-2	893-4	264-2	405-3	374-2	642-4	151-2	291-3	269-2	528-4	117-2	241-3	221-2	460-4	892-3	209-3	193-2
0.160	564-2	160-3	598-2	640-3	629-2	853-4	230-2	341-3	334-2	669-4	165-2	246-3	262-2	550-4	139-2	220-2	216-2
0.170	285-2	270-3	568-2	590-3	616-2	795-4	249-2	281-3	294-2	688-4	185-2	246-3	254-2	601-4	130-2	213-3	222-2
0.180	567-2	160-3	867-2	853-3	943-2	111-3	290-2	352-3	390-2	726-4	186-2	228-3	253-2	630-4	147-2	201-3	220-2
0.190	269-2	238-3	734-2	675-3	788-2	143-3	418-2	404-3	473-2	930-4	249-2	263-3	307-2	678-4	162-2	192-3	224-2
0.200	467-2	229-3	632-2	586-3	720-2	131-3	401-2	338-3	412-2	975-4	261-2	249-3	306-2	709-4	164-2	184-3	222-2
0.220	210-2	224-3	495-2	474-3	641-2	126-3	280-2	265-3	360-2	958-4	211-2	204-3	273-2	829-4	157-2	178-3	236-2
0.240	354-2	212-3	528-2	377-3	556-2	989-4	216-2	176-3	259-2	102-3	201-2	182-3	269-2	100-3	185-2	178-3	264-2
0.260	538-2	300-3	686-2	455-3	727-2	178-3	372-2	270-3	430-2	137-3	272-2	208-3	331-2	117-3	216-2	181-3	285-2
0.280	790-2	449-3	901-2	586-3	100-1	249-3	461-2	326-3	560-2	173-3	295-2	225-3	389-2	129-3	220-2	169-3	291-2
0.300	618-2	489-3	965-2	555-3	102-1	239-3	485-2	271-3	501-2	189-3	280-2	217-3	395-2	155-3	235-2	180-3	326-2
0.320	443-2	273-3	462-2	272-3	536-2	240-3	307-2	240-3	471-2	217-3	277-2	216-3	426-2	182-3	236-2	183-3	358-2
0.340	256-2	332-3	506-2	294-3	614-2	270-3	311-2	240-3	500-2	244-3	287-2	216-3	451-2	209-3	251-2	186-3	388-2
0.360	712-2	637-3	103-1	502-3	111-1	371-3	550-2	293-3	648-2	293-3	380-2	232-3	512-2	246-3	281-2	196-3	430-2
0.380	453-2	598-3	851-2	424-3	990-2	420-3	556-2	297-3	695-2	360-3	413-2	257-3	595-2	304-3	324-2	217-3	503-2
0.400	101-1	742-3	102-1	474-3	116-1	527-3	637-2	336-3	828-2	406-3	486-2	259-3	638-2	341-3	389-2	221-3	536-2
0.420	467-2	649-3	811-2	376-3	971-2	644-3	744-2	373-3	964-2	501-3	574-2	291-3	750-2	395-3	455-2	232-3	591-2
0.440	193-1	148-2	208-1	782-3	211-1	792-3	105-1	419-3	113-1	598-3	727-2	316-3	854-2	462-3	522-2	247-3	650-2
0.460	106-1	156-2	186-1	756-3	213-1	993-3	114-1	481-3	135-1	747-3	840-2	364-3	102-1	549-3	589-2	270-3	750-2
0.480	131-1	148-2	189-1	658-3	194-1	103-2	121-1	457-3	134-1	816-3	904-2	363-3	106-1	612-3	651-2	276-3	801-2
0.500	128-1	117-2	132-1	461-3	147-1	105-2	121-1	435-3	133-1	851-3	991-2	351-3	106-1	657-3	726-2	271-3	825-2
0.550	110-1	196-2	222-1	665-3	224-1	147-2	155-1	496-3	168-1	113-2	119-1	384-3	129-1	940-2	931-2	321-3	107-1
0.600	130-1	309-2	305-1	879-3	324-1	213-2	214-1	607-3	223-1	152-2	159-1	433-3	159-1	134-2	126-1	126-1	887-3
0.650	459-1	598-2	568-1	144-2	578-1	400-2	373-1	969-3	387-1	294-2	273-1	715-3	285-1	203-2	182-1	503-3	197-1
0.700	850-1	109-1	985-1	229-2	987-1	651-2	578-1	135-2	584-1	412-2	365-1	862-3	370-1	250-2	227-1	532-3	224-1

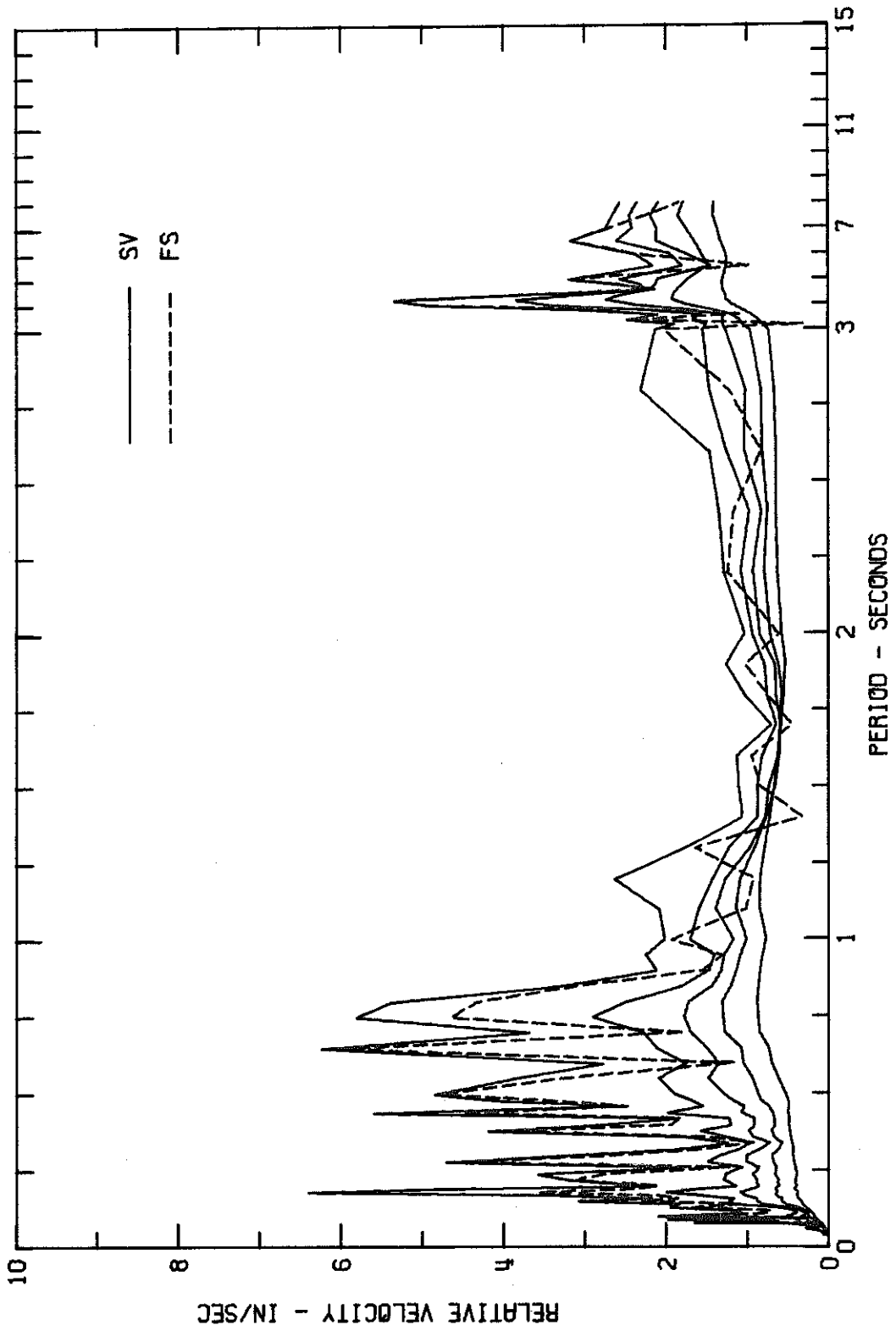
IIII125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP SOOM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

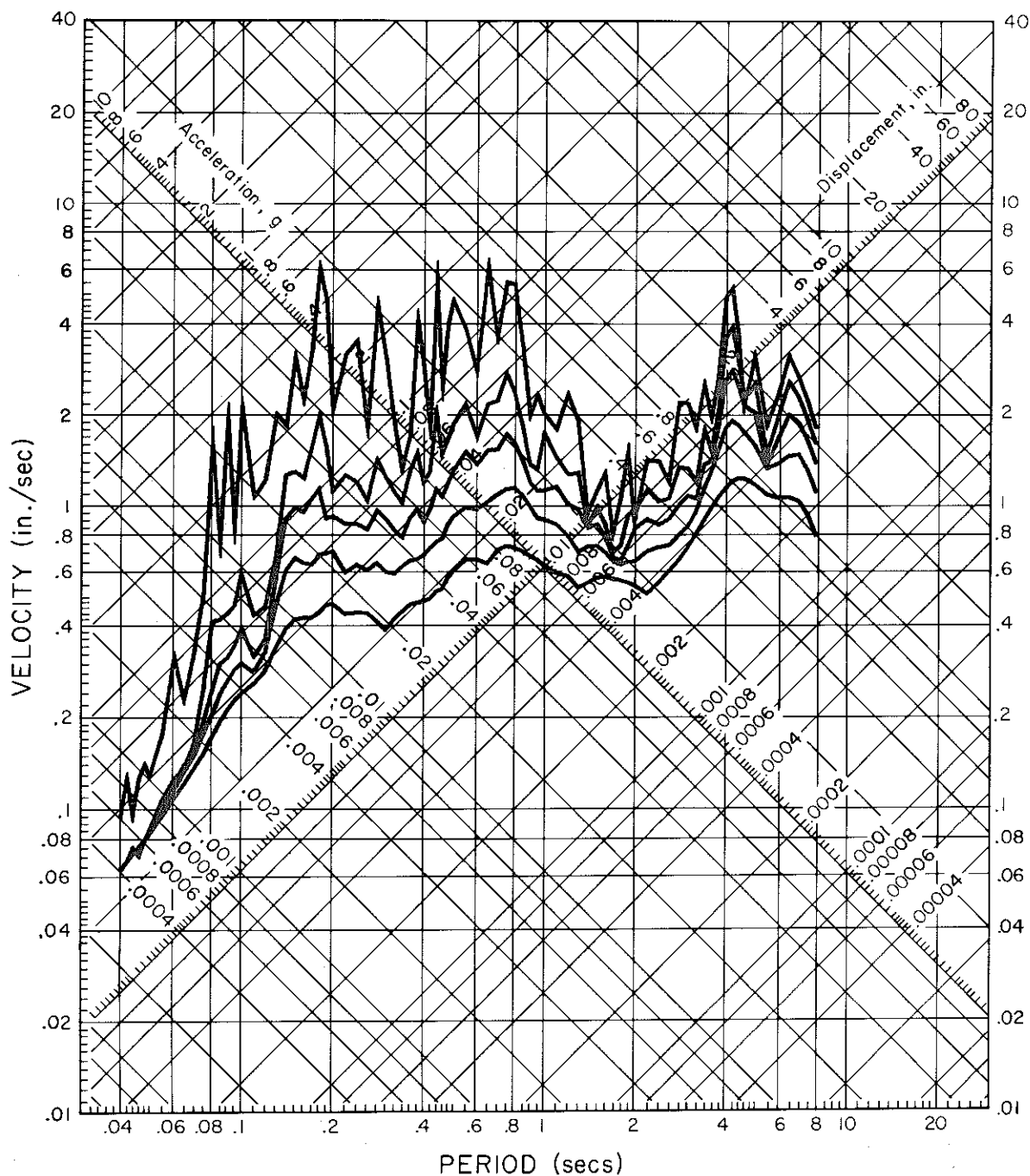
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	756-1	902-2	756-1	164-2	756-1	474-2	416-1	864-3	397-1	342-2	310-1	624-3	287-1	239-2	219-1	444-3	200-1
0.80	192-1	474-2	376-1	758-3	372-1	295-2	240-1	472-3	231-1	235-2	209-1	379-3	184-1	206-2	182-1	337-3	161-1
0.85	170-1	303-2	242-1	429-3	224-1	260-2	211-1	368-3	192-1	225-2	184-1	321-3	166-1	187-2	159-1	272-3	138-1
0.90	107-1	236-2	184-1	298-3	164-1	229-2	181-1	289-3	160-1	206-2	170-1	263-3	144-1	171-2	147-1	223-3	119-1
0.95	140-1	293-2	226-1	332-3	193-1	240-2	187-1	272-3	158-1	198-2	158-1	227-3	131-1	163-2	134-1	190-3	108-1
1.00	182-1	341-2	220-1	348-3	214-1	203-2	162-1	208-3	127-1	172-2	142-1	177-3	108-1	148-2	123-1	157-3	931-2
1.10	585-2	165-2	115-1	139-3	942-2	140-2	112-1	118-3	799-2	136-2	109-1	116-3	780-2	126-2	103-1	111-3	723-2
1.20	290-2	124-2	100-1	886-4	653-2	117-2	970-2	837-4	615-2	115-2	930-2	830-4	604-2	111-2	894-2	827-4	582-2
1.30	520-2	107-2	809-2	651-4	520-2	983-3	810-2	594-4	475-2	100-2	817-2	615-4	484-2	100-2	807-2	641-4	484-2
1.40	285-2	103-2	808-2	538-4	463-2	100-2	786-2	523-4	450-2	978-3	776-2	518-4	439-2	955-3	763-2	531-4	429-2
1.50	225-2	153-2	748-2	699-4	644-2	121-2	743-2	553-4	509-2	975-3	745-2	446-4	408-2	932-3	740-2	455-4	390-2
1.60	501-2	127-2	806-2	509-4	500-2	114-2	764-2	457-4	449-2	100-2	735-2	407-4	394-2	942-3	736-2	406-4	370-2
1.70	684-2	184-2	835-2	654-4	683-2	140-2	816-2	497-4	519-2	109-2	789-2	396-4	405-2	944-3	752-2	362-4	349-2
1.80	810-2	232-2	978-2	732-4	810-2	168-2	902-2	532-4	587-2	122-2	829-2	387-4	426-2	103-2	762-2	352-4	361-2
1.90	518-2	186-2	893-2	529-4	618-2	147-2	852-2	417-4	486-2	129-2	803-2	373-4	428-2	113-2	745-2	346-4	374-2
2.00	767-2	244-2	768-2	623-4	766-2	164-2	750-2	420-4	516-2	130-2	742-2	341-4	409-2	116-2	712-2	324-4	366-2
2.20	665-2	382-2	892-2	808-4	109-1	269-2	734-2	569-4	768-2	188-2	694-2	402-4	538-2	133-2	649-2	294-4	382-2
2.40	222-2	143-2	734-2	255-4	376-2	145-2	707-2	258-4	380-2	143-2	681-2	257-4	375-2	130-2	649-2	243-4	340-2
2.60	260-2	107-2	588-2	162-4	260-2	120-2	606-2	182-4	290-2	126-2	624-2	194-4	306-2	124-2	626-2	199-4	300-2
3.00	451-2	227-2	687-2	258-4	475-2	192-2	665-2	218-4	402-2	164-2	641-2	188-4	343-2	142-2	616-2	170-4	299-2
3.20	649-2	330-2	695-2	329-4	648-2	263-2	672-2	263-4	518-2	218-2	646-2	219-4	429-2	185-2	615-2	190-4	363-2
3.40	454-2	245-2	690-2	217-4	454-2	256-2	666-2	226-4	473-2	253-2	638-2	225-4	467-2	221-2	606-2	202-4	409-2
3.60	772-2	442-2	771-2	349-4	771-2	374-2	683-2	295-4	653-2	321-2	652-2	255-4	561-2	257-2	616-2	211-4	449-2
3.80	961-2	581-2	961-2	411-4	961-2	473-2	758-2	335-4	783-2	373-2	642-2	266-4	617-2	279-2	612-2	206-4	462-2
4.00	826-2	526-2	909-2	336-4	826-2	450-2	784-2	288-4	708-2	369-2	653-2	237-4	579-2	280-2	597-2	183-4	441-2
4.20	642-2	429-2	785-2	248-4	642-2	395-2	737-2	229-4	591-2	342-2	659-2	199-4	512-2	271-2	577-2	160-4	405-2
4.40	574-2	402-2	730-2	212-4	574-2	368-2	693-2	194-4	525-2	321-2	637-2	170-4	458-2	258-2	557-2	139-4	369-2
4.60	538-2	394-2	701-2	190-4	538-2	350-2	658-2	169-4	478-2	302-2	606-2	146-4	412-2	254-2	559-2	129-4	347-2
4.80	463-2	354-2	623-2	157-4	463-2	317-2	609-2	140-4	415-2	286-2	590-2	129-4	375-2	254-2	565-2	119-4	333-2
5.00	350-2	279-2	630-2	114-4	351-2	272-2	614-2	111-4	342-2	267-2	593-2	111-4	335-2	252-2	567-2	110-4	317-2
5.50	384-2	337-2	655-2	113-4	385-2	312-2	632-2	105-4	357-2	286-2	605-2	990-5	327-2	273-2	575-2	100-4	312-2
6.00	624-2	600-2	716-2	170-4	628-2	500-2	645-2	142-4	524-2	404-2	583-2	117-4	423-2	314-2	568-2	977-5	329-2
6.50	503-2	568-2	765-2	137-4	549-2	472-2	669-2	114-4	456-2	377-2	641-2	925-5	364-2	286-2	607-2	758-5	276-2
7.00	208-2	384-2	730-2	803-5	345-2	330-2	705-2	694-5	297-2	294-2	675-2	636-5	264-2	250-2	640-2	579-5	225-2
7.50	394-3	272-2	754-2	495-5	228-2	238-2	729-2	437-5	159-2	198-2	697-2	382-5	166-2	211-2	659-2	441-5	177-2
8.00	158-2	242-2	728-2	367-5	190-2	216-2	710-2	348-5	170-2	196-2	688-2	324-5	154-2	199-2	658-2	371-5	156-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 111H125 71.134.0 2600 NUTWOOD AVENUE, PENTHOUSE CENTER, FULLERTON, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

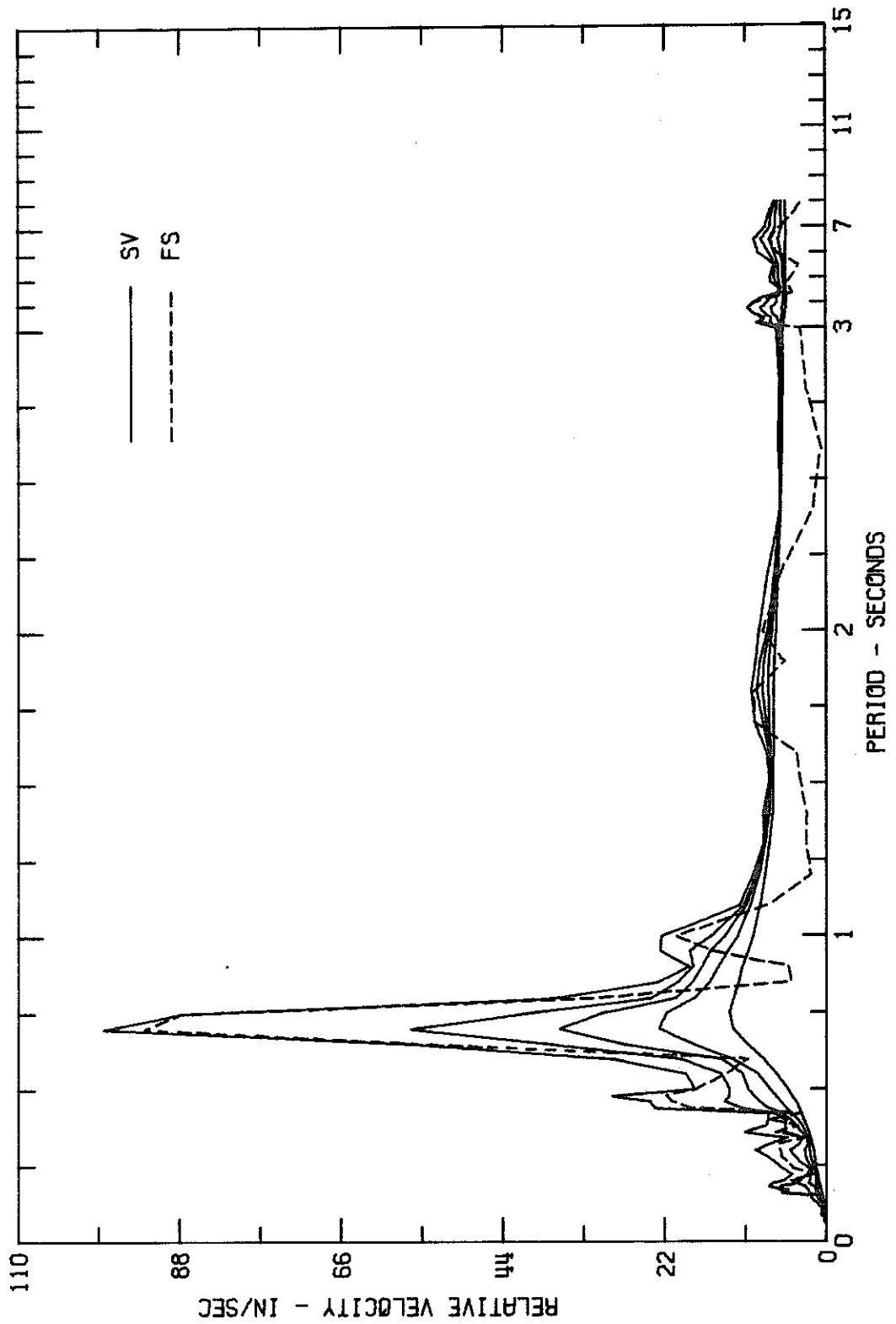
DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PERCENT					DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	275-5	589-6	645-4	376-4	925-4	396-6	159-4	253-4	623-4	399-6	204-4	255-4	627-4	403-6	199-4	257-4	633-4	403-6	188-4	259-4	633-4	403-6	188-4	259-4	633-4
0.042	476-4	843-6	754-4	489-4	126-3	449-6	226-4	261-4	673-4	449-6	227-4	261-4	672-4	449-6	220-4	260-4	671-4	447-6	207-4	261-4	669-4	447-6	207-4	261-4	669-4
0.044	113-4	663-6	664-4	350-4	947-4	520-6	253-4	274-4	743-4	501-6	249-4	264-4	716-4	497-6	240-4	262-4	710-4	495-6	264-4	707-4	495-6	264-4	707-4	495-6	264-4
0.046	395-4	927-6	906-4	448-4	126-3	511-6	300-4	247-4	698-4	535-6	265-4	258-4	731-4	546-6	259-4	264-4	746-4	547-6	247-4	267-4	747-4	547-6	247-4	267-4	747-4
0.048	663-4	106-5	924-4	474-4	139-3	599-6	325-4	266-4	784-4	596-6	275-4	265-4	780-4	603-6	279-4	269-4	785-4	602-6	271-4	789-4	602-6	271-4	789-4	602-6	271-4
0.050	585-4	101-5	754-4	414-4	127-3	682-6	335-4	279-4	857-4	677-6	309-4	276-4	851-4	671-6	305-4	276-4	844-4	659-6	297-4	274-4	829-4	659-6	297-4	274-4	829-4
0.055	710-4	154-5	145-3	522-4	176-3	939-6	570-4	316-4	107-3	851-6	434-4	288-4	973-4	855-6	384-4	291-4	977-4	831-6	376-4	286-4	950-4	831-6	376-4	286-4	950-4
0.060	180-3	303-5	282-3	863-4	318-3	119-5	661-4	340-4	125-3	115-5	583-4	328-4	120-3	109-5	530-4	314-4	114-3	103-5	473-4	298-4	108-3	103-5	473-4	298-4	108-3
0.065	200-3	335-5	218-3	569-4	227-3	140-5	998-4	339-4	135-3	144-5	741-4	347-4	139-3	137-5	659-4	333-4	133-3	125-5	590-4	310-4	121-3	125-5	590-4	310-4	121-3
0.070	161-3	369-5	299-3	772-4	332-3	183-5	144-3	385-4	164-3	168-5	109-3	355-4	151-3	167-5	838-4	351-4	150-3	151-5	716-4	321-4	135-3	151-5	716-4	321-4	135-3
0.075	188-3	620-5	488-3	112-3	519-3	298-5	223-3	541-4	249-3	310-5	158-3	423-4	193-3	211-5	117-3	385-4	177-3	180-5	860-4	339-4	151-3	180-5	860-4	339-4	151-3
0.080	724-3	212-4	165-2	338-3	166-2	527-5	384-3	845-4	414-3	312-5	215-3	501-4	245-3	260-5	147-3	425-4	204-3	220-5	102-3	362-4	173-3	220-5	102-3	362-4	173-3
0.085	622-3	101-4	729-3	144-3	752-3	567-5	365-3	802-4	419-3	406-5	256-3	579-4	300-3	323-5	180-3	460-4	238-3	260-5	120-3	379-4	192-3	260-5	120-3	379-4	192-3
0.090	165-2	283-4	198-2	358-3	198-2	631-5	385-3	801-4	440-3	450-5	272-3	573-4	314-3	379-5	198-3	487-4	264-3	302-5	141-3	398-4	211-3	302-5	141-3	398-4	211-3
0.095	257-3	127-4	812-3	144-3	845-3	710-5	421-3	803-4	470-3	519-5	297-3	594-4	343-3	434-5	231-3	492-4	287-3	344-5	161-3	406-4	228-3	434-5	161-3	406-4	228-3
0.100	174-2	343-4	210-2	351-3	215-2	956-5	510-3	976-4	600-3	626-5	340-3	638-4	393-3	479-5	254-3	487-4	301-3	382-5	179-3	403-4	240-3	382-5	179-3	403-4	240-3
0.110	719-3	188-4	106-2	159-3	107-2	762-5	398-3	640-4	435-3	552-5	277-3	668-4	315-3	492-5	257-3	428-4	281-3	453-5	208-3	402-4	259-3	453-5	208-3	402-4	259-3
0.120	738-3	235-4	115-2	166-3	123-2	886-5	428-3	627-4	464-3	690-5	333-3	485-4	361-3	627-5	293-3	451-4	328-3	544-5	239-3	416-4	284-3	544-5	239-3	416-4	284-3
0.130	169-2	420-4	195-2	254-3	203-2	141-4	624-3	854-4	681-3	118-4	492-3	725-4	572-3	970-5	388-3	592-4	469-3	704-5	280-3	444-4	340-3	704-5	280-3	444-4	340-3
0.140	108-2	413-4	183-2	215-3	185-2	284-4	118-2	149-3	127-2	204-4	822-3	106-3	917-3	137-4	535-3	730-4	618-3	872-5	320-3	477-4	391-3	872-5	320-3	477-4	391-3
0.150	230-2	753-4	308-2	342-3	315-2	312-4	122-2	141-3	130-2	236-4	884-3	107-3	991-3	161-4	587-3	754-4	677-3	100-4	346-3	481-4	420-3	677-3	100-4	346-3	481-4
0.160	185-2	573-4	217-2	229-3	225-2	316-4	117-2	127-3	124-2	243-4	894-3	980-4	957-3	165-4	572-3	668-4	649-3	108-4	379-3	458-4	426-3	649-3	108-4	379-3	458-4
0.170	214-2	904-4	332-2	320-3	334-2	424-4	156-2	150-3	156-2	287-4	104-2	102-3	106-2	173-4	658-3	629-4	642-3	115-4	390-3	431-4	425-3	642-3	115-4	390-3	431-4
0.180	357-2	179-3	640-2	566-3	626-2	574-4	200-2	181-3	200-2	327-4	109-2	102-3	114-2	197-4	649-3	638-4	690-3	127-4	415-3	429-4	469-3	638-4	690-3	127-4	415-3
0.190	246-2	146-3	481-2	415-3	485-2	481-4	158-2	137-3	137-3	275-4	929-3	792-4	911-3	211-4	657-3	611-4	698-3	141-4	415-3	429-4	469-3	611-4	698-3	141-4	415-3
0.200	211-2	661-4	211-2	169-3	207-2	357-4	113-2	924-4	112-2	295-4	866-3	763-4	929-3	225-4	529-3	593-4	707-3	151-4	408-3	402-4	475-3	529-3	593-4	707-3	151-4
0.220	312-2	112-3	321-2	237-3	321-2	445-4	129-2	937-4	127-2	306-4	892-3	639-4	874-3	211-4	622-3	464-4	603-3	153-4	411-3	364-4	439-3	622-3	464-4	603-3	153-4
0.240	274-2	136-3	358-2	241-3	356-2	459-4	106-2	819-4	120-2	335-4	934-3	609-4	877-3	244-4	664-3	449-4	640-3	169-4	443-3	443-3	443-3	640-3	169-4	443-3	443-3
0.260	123-2	752-4	185-2	113-3	181-2	430-4	106-2	655-4	104-2	347-4	858-3	531-4	840-3	254-4	644-3	394-4	614-3	183-4	435-3	265-4	414-3	394-4	614-3	183-4	435-3
0.280	460-2	210-3	471-2	274-3	472-2	640-4	149-2	831-4	143-2	432-4	101-2	502-4	907-3	289-4	703-3	344-4	606-3	185-4	444-3	387-3	308-2	595-4	132-2	682-4	124-2
0.300	261-2	147-3	318-2	167-3	308-2	595-4	132-2	682-4	124-2	433-4	101-2	502-4	907-3	289-4	703-3	344-4	606-3	185-4	444-3	387-3	308-2	595-4	132-2	682-4	124-2
0.320	151-2	961-4	186-2	960-4	188-2	570-4	109-2	571-4	111-2	425-4	842-3	428-4	835-3	305-4	614-3	310-4	599-3	214-4	446-3	224-4	421-3	214-4	446-3	224-4	421-3
0.340	920-3	715-4	123-2	632-4	132-2	555-4	966-3	489-4	102-2	427-4	727-3	384-4	789-3	343-4	579-3	308-4	635-3	243-4	456-3	227-4	450-3	243-4	456-3	227-4	450-3
0.360	147-2	988-4	172-2	780-4	172-2	753-4	126-2	593-4	131-2	525-4	935-3	420-4	917-3	379-4	672-3	301-4	661-3	271-4	472-3	227-4	473-3	271-4	472-3	227-4	473-3
0.380	390-2	254-3	419-2	180-3	421-2	916-4	157-2	646-4	151-2	591-4	981-3	420-4	978-3	404-4	700-3	293-4	669-3	290-4	486-3	219-4	480-3	290-4	486-3	219-4	480-3
0.400	193-2	183-3	284-2	117-3	288-2	762-4	119-2	485-4	119-2	564-4	915-3	365-4	887-3	440-4	666-3	285-4	691-3	309-4	491-3	211-4	485-3	309-4	491-3	211-4	485-3
0.420	183-2	122-3	183-2	711-4	183-2	879-4	123-2	508-4	131-2	660-4	928-3	381-4	587-3	487-4	671-3	284-4	728-3	331-4	499-3	204-4	495-3	331-4	499-3	204-4	495-3
0.440	451-2	396-3	560-2	209-3	566-2	144-3	198-2	760-4	205-2	801-4	107-2	427-4	114-2	536-4	698-3	288-4	765-3	367-4	502-3	207-4	524-3	367-4	502-3	207-4	524-3
0.460	247-2	182-3	250-2	879-4	248-2	109-3	154-2	531-4	149-2	788-4															

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	465-2	666-3	581-2	121-3	557-2	329-3	290-2	599-4	276-2	207-3	178-2	378-4	173-2	136-3	130-2	252-4	114-2	882-4	870-3	172-4	739-3
0.80	433-2	696-3	537-2	111-3	547-2	303-3	249-2	486-4	238-2	205-3	172-2	329-4	161-2	146-3	131-2	239-4	115-2	930-4	882-3	158-4	730-3
0.85	312-2	458-3	333-2	649-4	339-2	249-3	180-2	354-4	184-2	192-3	143-2	273-4	142-2	147-3	120-2	213-4	109-2	961-4	866-3	149-4	710-3
0.90	155-2	285-3	211-2	361-4	199-2	197-3	147-2	249-4	138-2	172-3	132-2	218-4	120-2	142-3	113-2	184-4	994-3	982-4	848-3	141-4	685-3
0.95	131-2	356-3	225-2	404-4	235-2	200-3	140-2	227-4	132-2	171-3	128-2	195-4	113-2	144-3	109-2	161-4	916-3	100-3	817-3	130-4	665-3
1.00	193-2	324-3	202-2	331-4	203-2	279-3	170-2	285-4	175-2	180-3	117-2	185-4	113-2	144-3	101-2	150-4	907-3	101-3	775-3	119-4	639-3
1.10	101-2	315-3	209-2	266-4	180-2	254-3	159-2	215-4	145-2	204-3	139-2	173-4	116-2	152-3	114-2	133-4	873-3	105-3	855-3	950-5	601-3
1.20	919-3	453-3	263-2	321-4	237-2	244-3	142-2	173-4	128-2	194-3	126-2	139-4	101-2	153-3	108-2	113-4	801-3	112-3	849-3	892-5	589-3
1.30	164-2	395-3	176-2	239-4	191-2	268-3	122-2	162-4	129-2	202-3	962-3	122-4	977-3	146-3	901-3	892-5	706-3	111-3	786-3	780-5	538-3
1.40	331-3	212-3	106-2	111-4	955-3	192-3	879-3	100-4	865-3	189-3	770-3	994-5	850-3	164-3	762-3	827-5	737-3	124-3	722-3	704-5	560-3
1.50	843-3	270-3	111-2	122-4	113-2	237-3	878-3	108-4	996-3	209-3	736-3	957-5	876-3	176-3	650-3	825-5	740-3	139-3	664-3	695-5	582-3
1.60	951-3	329-3	113-2	131-4	129-2	221-3	812-3	885-5	870-3	201-3	618-3	810-5	791-3	179-3	602-3	738-5	703-3	148-3	621-3	661-5	584-3
1.70	456-3	218-3	700-3	773-5	807-3	190-3	640-3	675-5	705-3	183-3	597-3	651-5	676-3	177-3	594-3	648-5	656-3	156-3	588-3	620-5	577-3
1.80	751-3	310-3	103-2	979-5	108-2	212-3	767-3	608-5	742-3	189-3	650-3	601-5	661-3	184-3	579-3	598-5	642-3	163-3	558-3	582-5	569-3
1.90	103-2	464-3	126-2	131-4	153-2	284-3	750-3	808-5	942-3	226-3	662-3	645-5	748-3	198-3	624-3	578-5	656-3	169-3	532-3	547-5	560-3
2.00	610-3	281-3	103-2	719-5	884-3	305-3	942-3	782-5	960-3	270-3	856-3	695-5	849-3	209-3	726-3	554-5	658-3	174-3	580-3	510-5	548-3
2.20	124-2	500-3	129-2	105-4	142-2	398-3	108-2	842-5	113-2	318-3	938-3	675-5	909-3	248-3	796-3	535-5	709-3	180-3	638-3	438-5	514-3
2.40	117-2	539-3	135-2	957-5	141-2	398-3	974-3	707-5	104-2	332-3	826-3	593-5	871-3	279-3	753-3	503-5	732-3	214-3	652-3	410-5	560-3
2.60	835-3	497-3	147-2	753-5	120-2	441-3	126-2	670-5	106-2	378-3	104-2	582-5	914-3	308-3	822-3	493-5	744-3	253-3	677-3	409-5	612-3
2.80	122-2	988-3	231-2	128-4	221-2	602-3	147-2	787-5	135-2	451-3	102-2	589-5	101-2	359-3	833-3	475-5	807-3	297-3	677-3	406-5	666-3
3.00	203-2	104-2	212-2	119-4	219-2	640-3	155-2	729-5	134-2	519-3	127-2	596-5	108-2	412-3	979-3	478-5	863-3	350-3	745-3	423-5	734-3
3.20	315-3	926-3	189-2	925-5	181-2	610-3	150-2	611-5	119-2	541-3	130-2	546-5	106-2	495-3	106-2	504-5	973-3	417-3	800-3	444-5	819-3
3.40	242-2	139-2	248-2	123-4	257-2	779-3	167-2	867-5	181-2	749-3	130-2	666-5	138-2	627-3	110-2	563-5	115-2	491-3	876-3	464-5	907-3
3.60	109-2	112-2	209-2	889-5	190-2	874-3	157-2	691-5	152-2	815-3	130-2	647-5	142-2	761-3	120-2	613-5	132-2	572-3	955-3	487-5	999-3
3.80	233-2	169-2	294-2	119-4	279-2	128-2	219-2	908-5	211-2	114-2	172-2	811-5	188-2	948-3	143-2	684-5	156-2	658-3	106-2	499-5	108-2
4.00	493-2	319-2	494-2	204-4	501-2	234-2	347-2	149-4	368-2	167-2	240-2	107-4	263-2	116-2	175-2	762-5	183-2	732-3	119-2	508-5	115-2
4.20	533-2	356-2	534-2	206-4	534-2	265-2	384-2	153-4	396-2	189-2	273-2	110-4	283-2	129-2	192-2	764-5	193-2	811-3	126-2	502-5	121-2
4.40	377-2	264-2	377-2	139-4	377-2	218-2	307-2	115-4	312-2	176-2	252-2	937-5	252-2	130-2	192-2	704-5	186-2	871-3	127-2	497-5	124-2
4.60	213-2	156-2	213-2	756-5	213-2	168-2	224-2	816-5	230-2	159-2	218-2	774-5	217-2	129-2	186-2	637-5	176-2	909-3	130-2	480-5	124-2
4.80	260-2	199-2	261-2	885-5	261-2	182-2	232-2	809-5	238-2	160-2	212-2	714-5	209-2	128-2	178-2	580-5	168-2	931-3	131-2	460-5	121-2
5.00	319-2	254-2	319-2	104-4	319-2	204-2	256-2	836-5	256-2	162-2	209-2	670-5	204-2	127-2	172-2	530-5	159-2	942-3	130-2	435-5	118-2
5.50	983-3	162-2	215-2	548-5	185-2	130-2	179-2	441-5	148-2	119-2	144-2	406-5	136-2	117-2	147-2	405-5	134-2	961-3	125-2	376-5	109-2
6.00	239-2	228-2	239-2	650-5	239-2	192-2	195-2	546-5	201-2	162-2	175-2	465-5	170-2	133-2	156-2	387-5	139-2	126-2	126-2	341-5	107-2
6.50	317-2	328-2	317-2	794-5	317-2	269-2	261-2	653-5	260-2	209-2	212-2	510-5	202-2	153-2	165-2	376-5	147-2	111-2	133-2	315-5	107-2
7.00	270-2	299-2	273-2	625-5	269-2	256-2	241-2	535-5	230-2	210-2	211-2	444-5	189-2	166-2	175-2	360-5	149-2	137-2	137-2	276-5	104-2
7.50	224-2	267-2	265-2	486-5	224-2	231-2	245-2	420-5	193-2	197-2	219-2	362-5	165-2	157-2	185-2	299-5	131-2	112-2	142-2	233-5	940-3
8.00	183-2	232-2	256-2	371-5	182-2	206-2	235-2	330-5	162-2	177-2	209-2	287-5	139-2	142-2	178-2	239-5	111-2	102-2	141-2	199-5	801-3

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111H126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP SOOW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

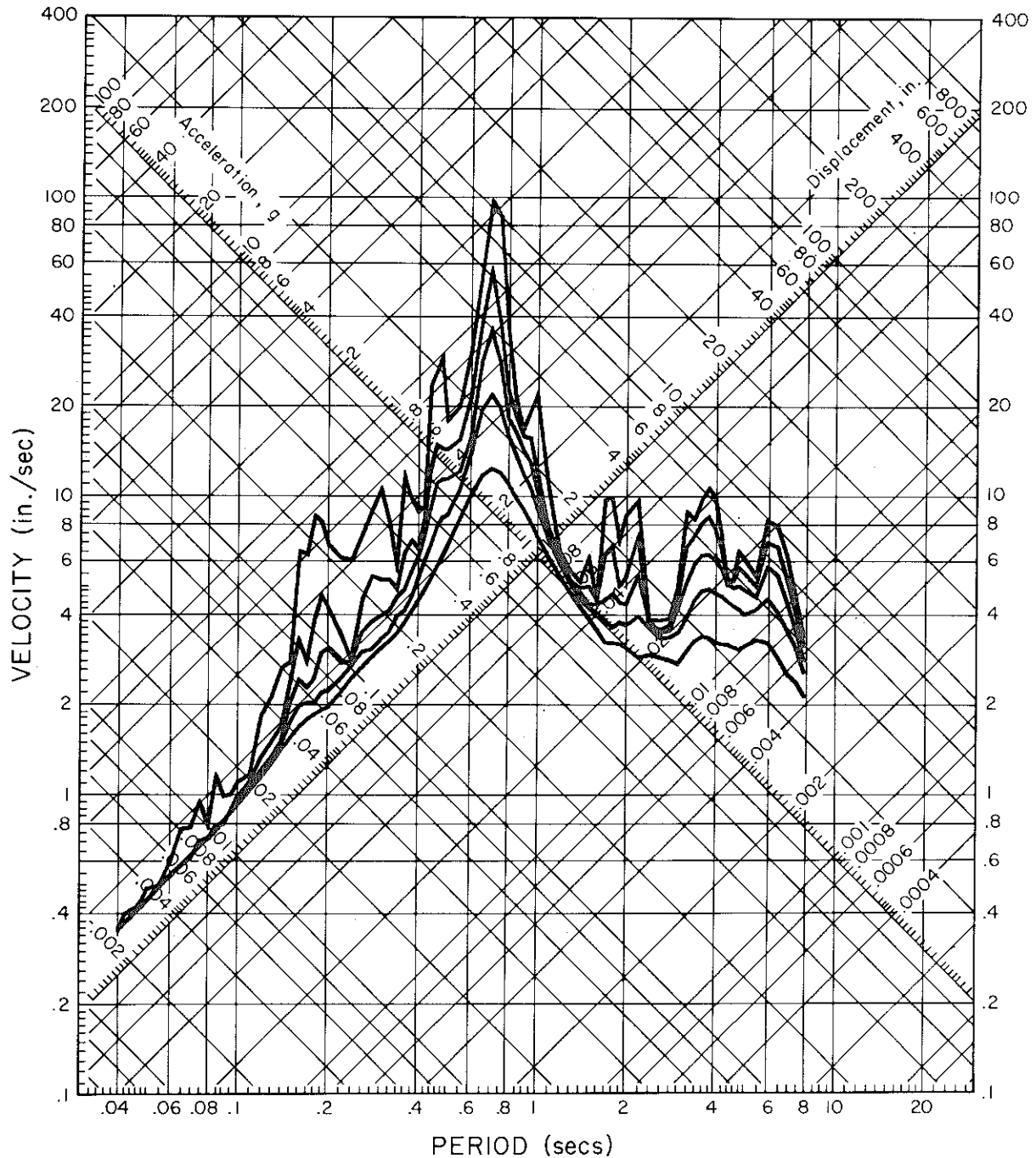


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIH126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP SOON

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP 500W

111H126

71.132.0

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	699-5	222-5	450-4	142-3	349-3	227-5	341-4	145-3	357-3	226-5	324-4	144-3	355-3	225-5	314-4	144-3	354-3
0.042	253-4	266-5	624-4	154-3	398-3	248-5	351-4	144-3	372-3	248-5	343-4	144-3	371-3	248-5	343-4	144-3	371-3
0.044	496-4	287-5	570-4	151-3	410-3	272-5	366-4	143-3	388-3	272-5	365-4	143-3	388-3	272-5	365-4	143-3	388-3
0.046	325-4	307-5	511-4	148-3	420-3	296-5	395-4	143-3	404-3	297-5	396-4	143-3	405-3	297-5	396-4	143-3	406-3
0.048	506-4	338-5	749-4	150-3	443-3	322-5	459-4	142-3	421-3	323-5	452-4	143-3	423-3	324-5	452-4	144-3	425-3
0.050	720-4	385-5	111-3	157-3	484-3	351-5	563-4	143-3	441-3	352-5	521-4	144-3	442-3	353-5	500-4	144-3	443-3
0.055	356-4	434-5	101-3	147-3	446-3	439-5	619-4	148-3	501-3	434-5	595-4	147-3	496-3	431-5	605-4	145-3	492-3
0.060	858-4	573-5	157-3	162-3	600-3	516-5	791-4	146-3	540-3	514-5	733-4	146-3	539-3	513-5	732-4	145-3	537-3
0.065	235-3	794-5	341-3	192-3	768-3	597-5	100-3	144-3	577-3	602-5	940-4	145-3	582-3	601-5	913-4	145-3	581-3
0.070	167-3	865-5	265-3	180-3	776-3	680-5	131-3	142-3	610-3	694-5	116-3	145-3	623-3	698-5	111-3	145-3	626-3
0.075	331-3	113-4	421-3	205-3	947-3	837-5	139-3	152-3	701-3	815-5	134-3	148-3	682-3	803-5	132-3	146-3	673-3
0.080	128-3	100-4	248-3	160-3	789-3	911-5	211-3	145-3	715-3	899-5	178-3	143-3	706-3	907-5	157-3	144-3	712-3
0.085	493-3	156-4	630-3	221-3	115-2	107-4	223-3	151-3	792-3	102-4	189-3	145-3	758-3	102-4	179-3	145-3	759-3
0.090	752-4	141-4	406-3	178-3	989-3	114-4	232-3	143-3	795-3	116-4	216-3	146-3	809-3	116-4	196-3	147-3	814-3
0.095	341-3	151-4	419-3	171-3	999-3	134-4	244-3	151-3	887-3	132-4	238-3	150-3	877-3	132-4	214-3	150-3	873-3
0.100	483-3	175-4	567-3	179-3	110-2	156-4	313-3	159-3	980-3	152-4	279-3	156-3	959-3	149-4	249-3	153-3	936-3
0.110	206-3	203-4	471-3	172-3	116-2	194-4	490-3	164-3	110-2	186-4	403-3	157-3	106-2	184-4	325-3	155-3	105-2
0.120	289-3	352-4	101-2	250-3	184-2	254-4	608-3	181-3	133-2	230-4	477-3	163-3	120-2	223-4	379-3	159-3	117-2
0.130	561-4	440-4	145-2	266-3	213-2	312-4	859-3	189-3	150-2	277-4	668-3	168-3	134-2	265-4	483-3	160-3	128-2
0.140	134-2	591-4	200-2	308-3	265-2	377-4	110-2	196-3	165-2	335-4	761-3	174-3	150-2	332-4	591-3	173-3	149-2
0.150	980-3	660-4	220-2	300-3	276-2	572-4	149-2	260-3	239-2	491-4	108-2	222-3	205-2	421-4	796-3	193-3	176-2
0.160	602-2	167-3	621-2	670-3	659-2	840-4	232-2	336-3	329-2	617-4	147-2	246-3	242-2	504-4	105-2	202-3	198-2
0.170	533-2	172-3	594-2	612-3	639-2	748-4	260-2	265-3	276-2	616-4	159-2	219-3	227-2	549-4	121-2	195-3	203-2
0.180	667-2	247-3	785-2	782-3	885-2	110-3	293-2	349-3	385-2	700-4	172-2	222-3	244-2	581-4	131-2	185-3	202-2
0.190	411-2	247-3	749-2	702-3	819-2	141-3	403-2	400-3	467-2	897-4	243-2	253-3	296-2	663-4	152-2	189-3	219-2
0.200	493-2	219-3	593-2	560-3	689-2	135-3	376-2	347-3	425-2	977-4	233-2	247-3	307-2	708-4	150-2	186-3	222-2
0.220	178-2	218-3	462-2	461-3	623-2	121-3	261-2	258-3	347-2	969-4	212-2	205-3	276-2	847-4	155-2	180-3	242-2
0.240	450-2	234-3	600-2	416-3	613-2	107-3	210-2	190-3	280-2	105-3	189-2	167-3	276-2	103-3	173-2	183-3	270-2
0.260	528-2	311-3	710-2	471-3	753-2	188-3	369-2	285-3	455-2	145-3	258-2	221-3	351-2	123-3	201-2	189-3	299-2
0.280	624-2	403-3	805-2	526-3	905-2	242-3	435-2	315-3	543-2	169-3	291-2	223-3	381-2	136-3	223-2	178-3	306-2
0.300	636-2	508-3	976-2	577-3	106-1	252-3	501-2	287-3	528-2	190-3	301-2	216-3	399-2	158-3	231-2	179-3	331-2
0.320	666-2	421-3	783-2	420-3	826-2	268-3	375-2	267-3	526-2	211-3	262-2	209-3	414-2	179-3	238-2	181-3	352-2
0.340	278-2	318-3	530-2	281-3	589-2	265-3	326-2	234-3	489-2	250-3	269-2	221-3	462-2	215-3	247-2	192-3	398-2
0.360	694-2	676-3	111-1	533-3	117-1	373-3	565-2	294-3	651-2	280-3	349-2	221-3	489-2	237-3	290-2	188-3	415-2
0.380	395-2	594-3	823-2	421-3	982-2	433-3	562-2	306-3	716-2	341-3	420-2	242-3	565-2	279-3	336-2	199-3	461-2
0.400	800-2	566-3	796-2	362-3	850-2	424-3	539-2	271-3	667-2	404-3	486-2	259-3	635-2	343-3	395-2	223-3	539-2
0.420	361-2	621-3	783-2	360-3	930-2	568-3	707-2	329-3	850-2	505-3	613-2	293-3	756-2	412-3	473-2	242-3	616-2
0.440	186-1	167-2	234-1	883-3	238-1	875-3	117-1	462-3	125-1	645-3	805-2	343-3	921-2	488-3	556-2	263-3	697-2
0.460	211-1	195-2	240-1	945-3	267-1	109-2	139-1	530-3	149-1	815-3	920-2	395-3	111-1	584-3	635-2	288-3	798-2
0.480	217-1	226-2	292-1	100-2	296-1	111-2	132-1	496-3	145-1	878-3	995-2	394-3	115-1	652-3	700-2	295-3	854-2
0.500	178-1	143-2	178-1	588-3	180-1	115-2	132-1	471-3	144-1	916-3	107-1	374-3	115-1	695-3	772-2	289-3	874-2
0.550	136-1	176-2	191-1	596-3	201-1	136-2	143-1	462-3	155-1	107-2	115-1	365-3	122-1	929-3	941-2	318-3	106-1
0.600	107-1	296-2	288-1	842-3	310-1	208-2	197-1	592-3	218-1	152-2	143-1	433-3	159-1	134-2	128-1	389-3	141-1
0.650	544-1	585-2	556-1	141-2	565-1	400-2	375-1	967-3	386-1	295-2	277-1	718-3	286-1	203-2	183-1	502-3	196-1
0.700	928-1	109-1	984-1	229-2	985-1	639-2	565-1	133-2	573-1	407-2	363-1	853-3	365-1	246-2	227-1	525-3	221-1

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

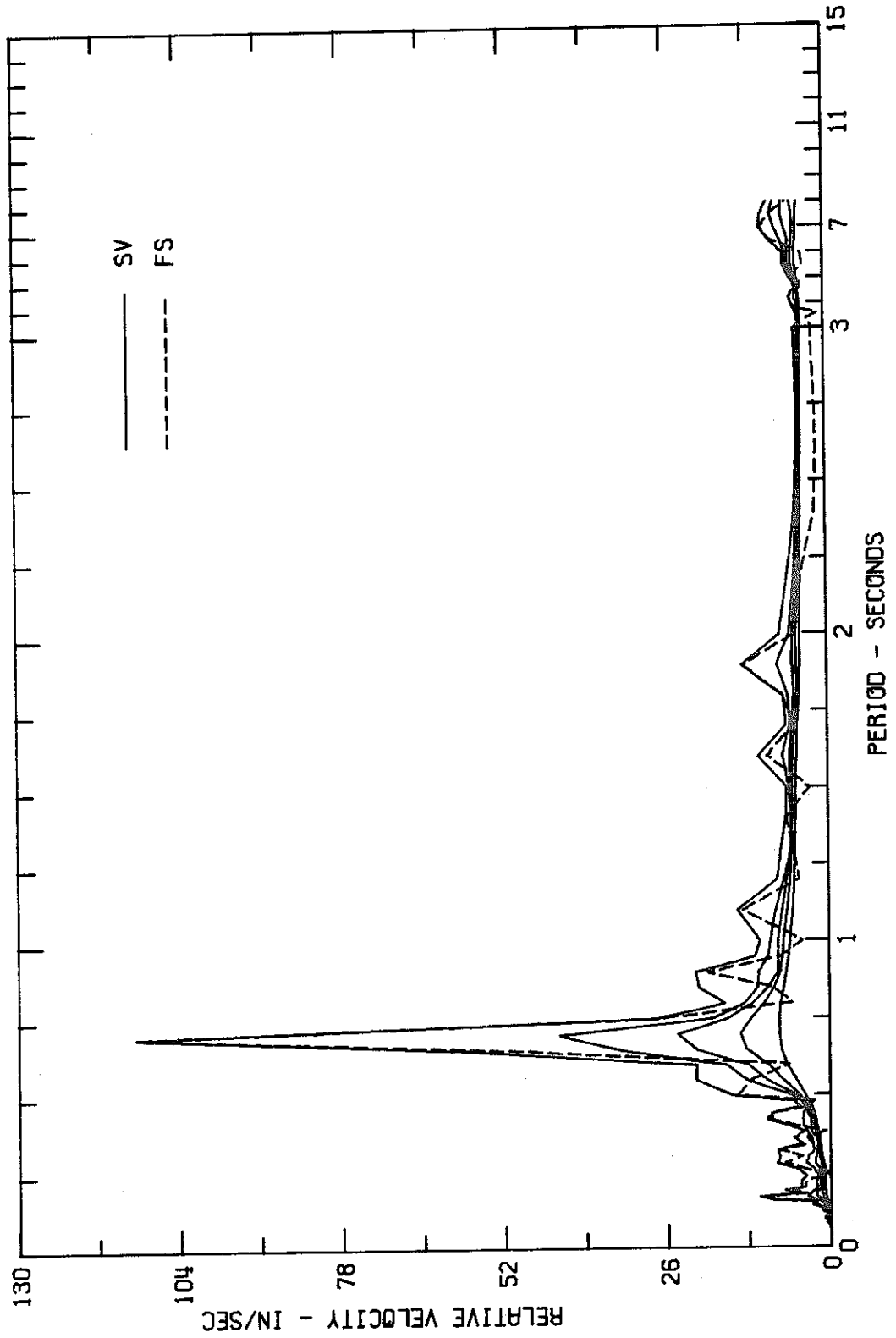
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	876-1	104-1	876-1	190-2	876-1	463-2	405-1	842-3	388-1	337-2	303-1	616-3	282-1	236-2	217-1	440-3	198-1
0.80	309-1	465-2	372-1	743-3	365-1	290-2	237-1	463-3	227-1	233-2	204-1	374-3	183-1	204-2	178-1	334-3	160-1
0.85	487-2	286-2	228-1	404-3	211-1	251-2	202-1	356-3	185-1	221-2	182-1	314-3	163-1	185-2	158-1	270-3	137-1
0.90	518-2	241-2	186-1	305-3	168-1	228-2	180-1	289-3	159-1	205-2	168-1	260-3	143-1	170-2	146-1	221-3	118-1
0.95	154-1	293-2	226-1	332-3	194-1	238-2	186-1	269-3	157-1	195-2	157-1	224-3	129-1	161-2	133-1	189-3	106-1
1.00	205-1	352-2	225-1	360-3	221-1	195-2	156-1	200-3	122-1	170-2	138-1	175-3	106-1	147-2	120-1	156-3	924-2
1.10	795-2	185-2	117-1	156-3	106-1	135-2	111-1	114-3	774-2	132-2	108-1	113-3	751-2	125-2	102-1	110-3	716-2
1.20	209-2	124-2	998-2	882-4	650-2	121-2	952-2	865-4	636-2	118-2	934-2	853-4	621-2	113-2	907-2	844-4	595-2
1.30	284-2	116-2	851-2	707-4	564-2	107-2	849-2	654-4	519-2	107-2	844-2	660-4	520-2	105-2	827-2	675-4	511-2
1.40	274-2	115-2	858-2	604-4	519-2	109-2	824-2	576-4	493-2	106-2	801-2	563-4	477-2	102-2	780-2	569-4	462-2
1.50	360-2	150-2	771-2	682-4	628-2	119-2	773-2	544-4	501-2	104-2	771-2	482-4	436-2	101-2	763-2	494-4	427-2
1.60	416-2	114-2	817-2	457-4	449-2	114-2	783-2	459-4	449-2	111-2	769-2	452-4	436-2	103-2	765-2	444-4	406-2
1.70	983-2	266-2	983-2	941-4	983-2	174-2	871-2	617-4	643-2	122-2	833-2	440-4	451-2	104-2	786-2	397-4	384-2
1.80	996-2	285-2	102-1	900-4	996-2	196-2	952-2	619-4	684-2	135-2	877-2	432-4	473-2	104-2	800-2	352-4	365-2
1.90	580-2	215-2	957-2	611-4	713-2	152-2	904-2	433-4	503-2	133-2	848-2	386-4	442-2	114-2	783-2	349-4	380-2
2.00	873-2	278-2	923-2	710-4	873-2	172-2	794-2	440-4	540-2	139-2	772-2	359-4	439-2	118-2	743-2	326-4	371-2
2.20	607-2	341-2	784-2	720-4	974-2	259-2	694-2	549-4	741-2	190-2	660-2	406-4	544-2	139-2	662-2	306-4	397-2
2.40	190-2	147-2	621-2	262-4	387-2	142-2	630-2	254-4	374-2	148-2	631-2	267-4	389-2	138-2	624-2	259-4	363-2
2.60	750-3	159-2	653-2	241-4	385-2	148-2	642-2	225-4	359-2	144-2	632-2	221-4	348-2	138-2	619-2	221-4	334-2
2.80	276-2	174-2	635-2	227-4	391-2	165-2	637-2	215-4	370-2	158-2	633-2	210-4	356-2	150-2	619-2	207-4	336-2
3.00	359-2	239-2	683-2	272-4	502-2	218-2	664-2	249-4	458-2	202-2	642-2	232-4	424-2	167-2	618-2	201-4	351-2
3.20	896-2	456-2	956-2	456-4	896-2	348-2	753-2	348-4	684-2	264-2	628-2	266-4	518-2	200-2	605-2	205-4	393-2
3.40	841-2	455-2	840-2	402-4	841-2	402-2	748-2	356-4	744-2	232-2	664-2	287-4	598-2	245-2	594-2	223-4	452-2
3.60	900-2	567-2	990-2	447-4	990-2	472-2	846-2	372-4	823-2	367-2	733-2	291-4	640-2	278-2	591-2	227-4	485-2
3.80	107-1	651-2	107-1	461-4	107-1	521-2	896-2	369-4	861-2	387-2	750-2	276-4	641-2	298-2	594-2	218-4	493-2
4.00	993-2	626-2	983-2	400-4	983-2	444-2	802-2	316-4	776-2	392-2	662-2	251-4	616-2	303-2	576-2	197-4	476-2
4.20	734-2	504-2	861-2	292-4	755-2	444-2	756-2	258-4	665-2	383-2	666-2	223-4	573-2	310-2	577-2	183-4	464-2
4.40	456-2	356-2	651-2	188-4	509-2	372-2	635-2	196-4	531-2	360-2	624-2	192-4	514-2	312-2	572-2	169-4	446-2
4.60	493-2	384-2	637-2	185-4	524-2	383-2	619-2	185-4	523-2	364-2	614-2	178-4	497-2	316-2	571-2	158-4	432-2
4.80	557-2	503-2	753-2	223-4	658-2	442-2	691-2	196-4	578-2	385-2	640-2	173-4	504-2	321-2	580-2	149-4	420-2
5.00	473-2	495-2	764-2	202-4	622-2	443-2	707-2	181-4	556-2	388-2	651-2	160-4	487-2	321-2	585-2	138-4	403-2
5.50	375-2	475-2	703-2	160-4	543-2	441-2	691-2	149-4	503-2	405-2	654-2	139-4	463-2	369-2	591-2	131-4	421-2
6.00	679-2	796-2	930-2	226-4	834-2	673-2	786-2	191-4	705-2	556-2	705-2	160-4	582-2	436-2	616-2	132-4	456-2
6.50	768-2	828-2	988-2	200-4	801-2	702-2	886-2	170-4	679-2	567-2	773-2	138-4	548-2	424-2	652-2	109-4	410-2
7.00	637-2	710-2	835-2	148-4	637-2	589-2	766-2	123-4	529-2	493-2	688-2	104-4	443-2	395-2	602-2	870-5	355-2
7.50	462-2	551-2	776-2	100-4	462-2	488-2	741-2	889-5	409-2	425-2	692-2	795-5	356-2	369-2	624-2	729-5	305-2
8.00	339-2	432-2	701-2	691-5	339-2	399-2	685-2	639-5	314-2	357-2	659-2	582-5	281-2	325-2	615-2	582-5	253-2

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIIH26 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

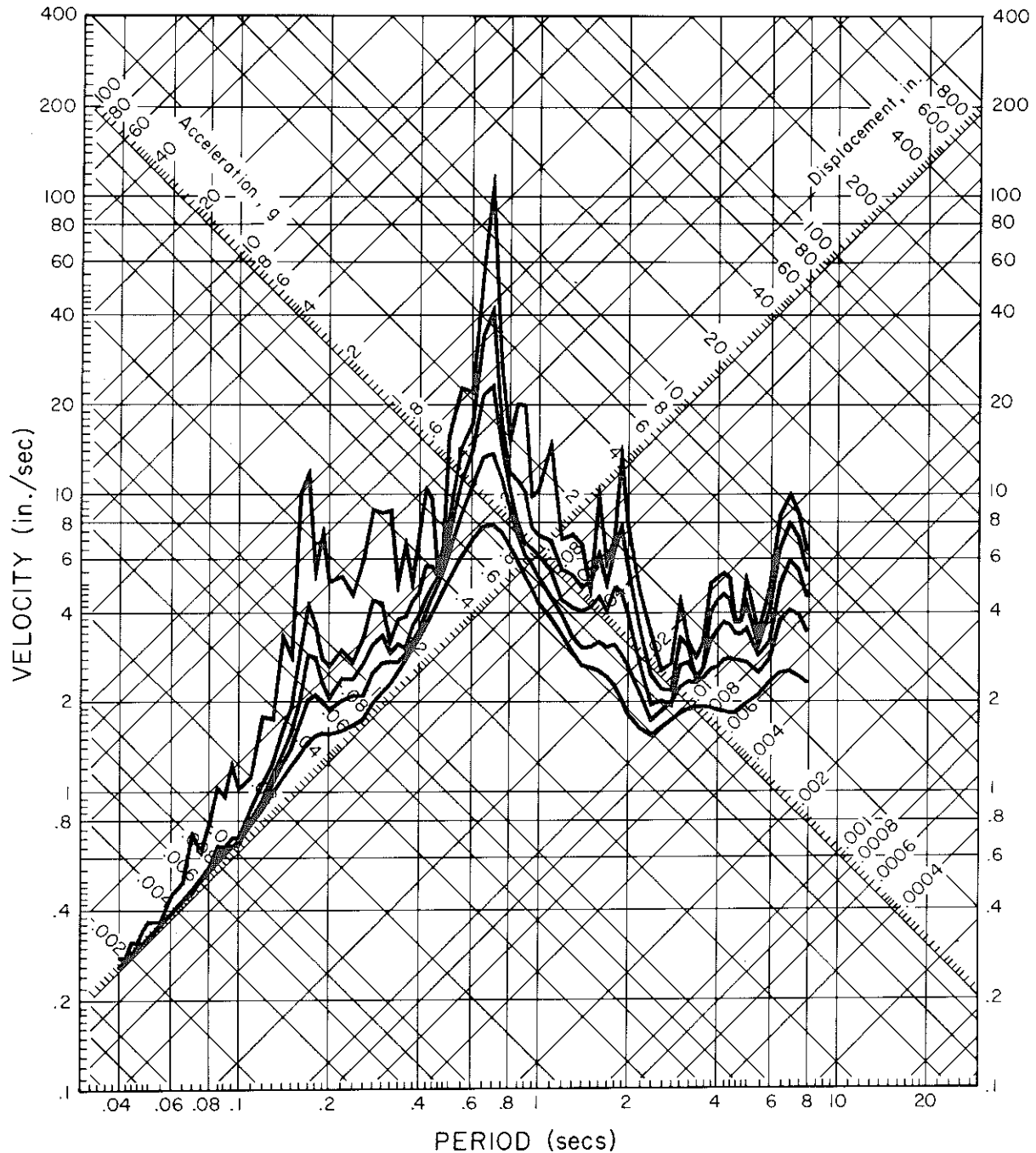


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111H126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



71.132.0

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																				
0.040	276-4	176-5	476-4	113-3	277-3	164-5	253-4	105-3	258-3	164-5	260-4	105-3	258-3	164-5	263-4	105-3	258-3	164-5	262-4	105-3	258-3	164-5	262-4	105-3	258-3	164-5	262-4	105-3	258-3																				
0.042	301-4	185-5	417-4	107-3	277-3	181-5	297-4	105-3	271-3	181-5	293-4	105-3	271-3	181-5	292-4	105-3	271-3	181-5	289-4	105-3	271-3	181-5	289-4	105-3	271-3	181-5	289-4	105-3	271-3																				
0.044	418-4	219-5	658-4	116-3	313-3	200-5	335-4	105-3	285-3	199-5	328-4	105-3	285-3	199-5	323-4	105-3	285-3	199-5	317-4	105-3	285-3	199-5	317-4	105-3	285-3	199-5	317-4	105-3	285-3																				
0.046	505-4	227-5	514-4	110-3	311-3	220-5	363-4	106-3	301-3	219-5	357-4	105-3	299-3	218-5	354-4	105-3	298-3	218-5	347-4	105-3	298-3	218-5	347-4	105-3	298-3	218-5	347-4	105-3	298-3																				
0.048	373-4	262-5	743-4	116-3	343-3	237-5	390-4	105-3	311-3	238-5	391-4	105-3	311-3	238-5	387-4	105-3	311-3	238-5	377-4	105-3	311-3	238-5	377-4	105-3	311-3	238-5	377-4	105-3	311-3																				
0.050	812-4	292-5	864-4	119-3	367-3	256-5	457-4	104-3	321-3	257-5	434-4	105-3	323-3	258-5	420-4	105-3	324-3	258-5	408-4	106-3	324-3	258-5	408-4	106-3	324-3	258-5	408-4	106-3	324-3																				
0.055	320-4	321-5	738-4	108-3	367-3	314-5	530-4	106-3	359-3	314-5	510-4	106-3	359-3	314-5	500-4	106-3	359-3	314-5	489-4	106-3	359-3	314-5	489-4	106-3	359-3	314-5	489-4	106-3	359-3																				
0.060	711-4	433-5	140-3	123-3	453-3	376-5	601-4	106-3	393-3	376-5	599-4	106-3	394-3	376-5	591-4	107-3	394-3	376-5	576-4	107-3	394-3	376-5	576-4	107-3	394-3	376-5	576-4	107-3	394-3																				
0.065	208-3	511-5	197-3	123-3	494-3	447-5	753-4	108-3	432-3	447-5	712-4	108-3	432-3	447-5	688-4	108-3	432-3	447-5	669-4	108-3	432-3	447-5	669-4	108-3	432-3	447-5	669-4	108-3	432-3																				
0.070	267-3	807-5	380-3	168-3	725-3	509-5	745-4	113-3	456-3	524-5	877-4	109-3	470-3	525-5	813-4	109-3	471-3	520-5	773-4	109-3	471-3	520-5	773-4	109-3	471-3	520-5	773-4	109-3	471-3																				
0.075	125-3	747-5	240-3	135-3	626-3	610-5	130-3	110-3	511-3	612-5	107-3	111-3	513-3	611-5	981-4	111-3	512-3	602-5	902-4	110-3	512-3	602-5	902-4	110-3	512-3	602-5	902-4	110-3	512-3																				
0.080	453-3	100-4	522-3	161-3	792-3	714-5	180-3	114-3	560-3	716-5	137-3	114-3	563-3	707-5	118-3	113-3	556-3	691-5	104-3	111-3	553-3	691-5	104-3	111-3	553-3	691-5	104-3	111-3	553-3																				
0.085	483-3	139-4	649-3	198-3	103-2	891-5	223-3	126-3	658-3	845-5	156-3	120-3	625-3	810-5	136-3																																		

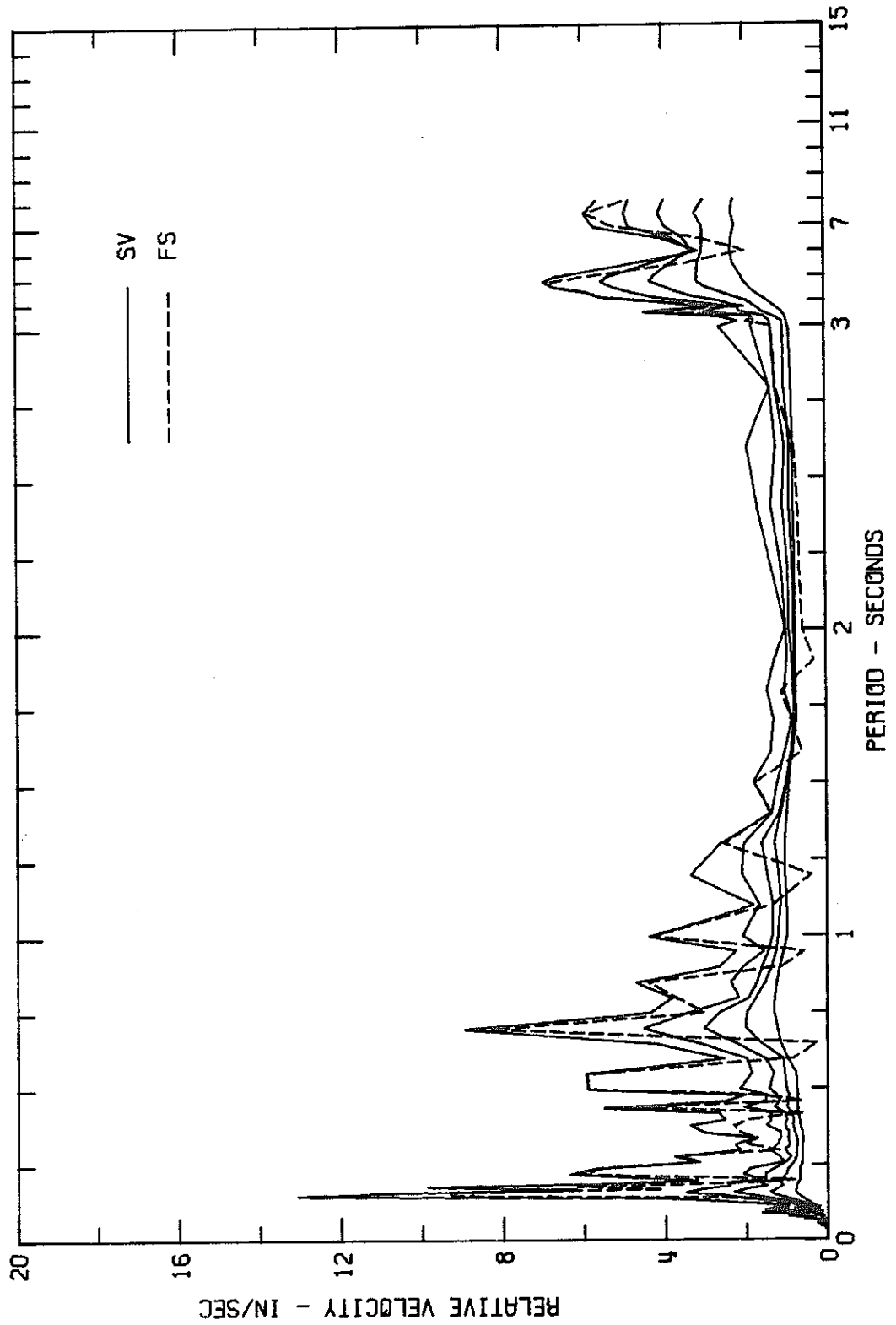
IIH126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	277-1	331-2	278-1	603-3	277-1	213-2	186-1	388-3	178-1	176-2	162-1	322-3	147-1	137-2	125-1	256-3	115-1
0.80	605-2	196-2	167-1	314-3	154-1	152-2	136-1	244-3	119-1	135-2	122-1	217-3	106-1	116-2	104-1	191-3	916-2
0.85	917-2	276-2	209-1	391-3	204-1	152-2	115-1	216-3	112-1	109-2	975-2	156-3	808-2	100-2	887-2	147-3	741-2
0.90	196-1	289-2	215-1	365-3	202-1	147-2	114-1	187-3	103-1	995-3	830-2	126-3	694-2	905-3	782-2	118-3	632-2
0.95	780-2	151-2	119-1	171-3	999-2	118-2	975-2	134-3	782-2	100-2	827-2	115-3	666-2	886-3	750-2	103-3	586-2
1.00	430-2	167-2	110-1	170-3	104-1	117-2	946-2	120-3	737-2	100-2	829-2	103-3	636-2	853-3	735-2	906-4	536-2
1.10	138-1	261-2	147-1	221-3	149-1	123-2	848-2	104-3	706-2	986-3	742-2	840-4	563-2	801-3	668-2	706-4	457-2
1.20	479-2	136-2	830-2	969-4	714-2	107-2	727-2	766-4	555-2	853-3	669-2	613-4	446-2	762-3	618-2	570-4	399-2
1.30	577-2	153-2	762-2	930-4	743-2	112-2	583-2	682-4	544-2	872-3	598-2	531-4	421-2	699-3	590-2	448-4	337-2
1.40	683-2	152-2	685-2	796-4	685-2	110-2	602-2	574-4	493-2	915-3	592-2	480-4	410-2	691-3	576-2	372-4	310-2
1.50	295-2	115-2	666-2	524-4	483-2	122-2	641-2	559-4	515-2	101-2	612-2	462-4	423-2	744-3	573-2	348-4	311-2
1.60	986-2	258-2	113-1	103-3	101-1	163-2	728-2	654-4	642-2	116-2	613-2	470-4	459-2	824-3	562-2	340-4	323-2
1.70	546-2	161-2	669-2	570-4	595-2	136-2	610-2	482-4	503-2	110-2	569-2	394-4	409-2	842-3	528-2	319-4	311-2
1.80	725-2	208-2	727-2	657-4	726-2	189-2	642-2	600-4	662-2	140-2	542-2	445-4	490-2	909-3	492-2	292-4	317-2
1.90	136-1	414-2	136-1	117-3	136-1	239-2	817-2	679-4	791-2	143-2	565-2	407-4	473-2	892-3	506-2	258-4	295-2
2.00	512-2	256-2	760-2	657-4	807-2	185-2	603-2	473-4	581-2	128-2	556-2	330-4	403-2	859-3	503-2	226-4	270-2
2.20	401-2	166-2	623-2	351-4	474-2	125-2	518-2	265-4	358-2	955-3	480-2	203-4	272-2	755-3	460-2	171-4	215-2
2.40	188-2	131-2	501-2	233-4	344-2	954-3	478-2	169-4	249-2	753-3	451-2	135-4	197-2	668-3	420-2	133-4	174-2
2.60	155-2	107-2	465-2	162-4	259-2	924-3	454-2	139-4	223-2	841-3	441-2	128-4	203-2	779-3	420-2	120-4	188-2
2.80	177-2	122-2	463-2	159-4	273-2	986-3	436-2	129-4	221-2	874-3	416-2	114-4	196-2	895-3	405-2	120-4	200-2
3.00	220-2	212-2	504-2	241-4	445-2	160-2	416-2	182-4	335-2	128-2	391-2	147-4	269-2	108-2	387-2	127-4	227-2
3.20	221-2	165-2	401-2	164-4	324-2	158-2	388-2	158-4	310-2	141-2	375-2	142-4	277-2	121-2	379-2	125-4	238-2
3.40	285-2	155-2	441-2	137-4	287-2	130-2	417-2	115-4	240-2	133-2	396-2	118-4	246-2	127-2	388-2	117-4	236-2
3.60	944-3	185-2	450-2	146-4	323-2	152-2	429-2	120-4	266-2	152-2	410-2	121-4	265-2	141-2	398-2	115-4	246-2
3.80	464-2	309-2	488-2	219-4	511-2	247-2	416-2	175-4	408-2	198-2	407-2	141-4	356-2	170-2	399-2	116-4	262-2
4.00	530-2	339-2	532-2	216-4	532-2	285-2	434-2	182-4	448-2	227-2	393-2	145-4	378-2	189-2	402-2	110-4	267-2
4.20	550-2	369-2	552-2	214-4	552-2	313-2	474-2	182-4	469-2	253-2	398-2	147-4	378-2	189-2	402-2	111-4	283-2
4.40	528-2	372-2	531-2	196-4	531-2	313-2	462-2	165-4	448-2	259-2	409-2	137-4	370-2	200-2	413-2	107-4	285-2
4.60	378-2	278-2	466-2	134-4	380-2	276-2	450-2	133-4	377-2	254-2	433-2	123-4	347-2	206-2	429-2	102-4	282-2
4.80	383-2	294-2	490-2	130-4	385-2	290-2	475-2	128-4	379-2	264-2	462-2	118-4	346-2	214-2	449-2	970-5	280-2
5.00	527-2	421-2	546-2	172-4	529-2	351-2	527-2	144-4	442-2	286-2	505-2	117-4	360-2	221-2	476-2	924-5	278-2
5.50	349-2	306-2	656-2	103-4	349-2	277-2	622-2	944-5	316-2	256-2	579-2	876-5	293-2	223-2	526-2	815-5	255-2
6.00	373-2	469-2	650-2	133-4	491-2	395-2	620-2	112-4	413-2	312-2	581-2	913-5	326-2	272-2	530-2	788-5	285-2
6.50	870-2	901-2	871-2	218-4	871-2	699-2	697-2	169-4	675-2	526-2	565-2	128-4	509-2	398-2	497-2	993-5	385-2
7.00	101-1	113-1	101-1	236-4	101-1	908-2	790-2	189-4	815-2	680-2	627-2	143-4	610-2	463-2	502-2	101-4	415-2
7.50	872-2	104-1	101-1	189-4	873-2	864-2	853-2	157-4	724-2	673-2	681-2	123-4	564-2	478-2	504-2	895-5	400-2
8.00	601-2	839-2	906-2	134-4	659-2	714-2	798-2	114-4	560-2	586-2	673-2	950-5	460-2	449-2	536-2	766-5	352-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111H126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

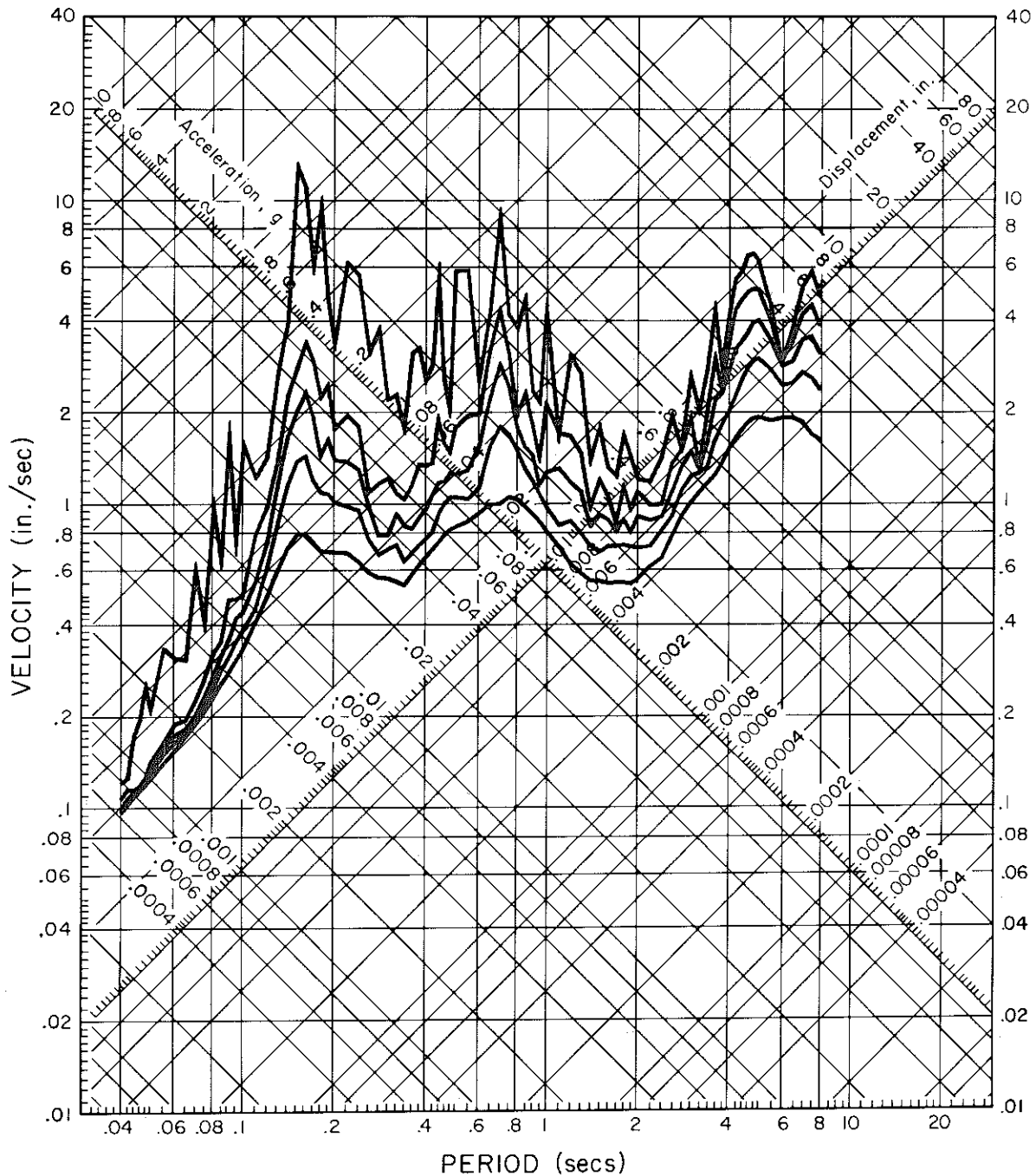


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIH126 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIHL26 71.132.0 2600 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP DOWN
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	189-4	767-6	653-4	490-4	120-3	683-6	464-4	436-4	107-3	636-6	375-4	408-4	100-3	618-6	326-4	396-4	972-4
0.042	644-4	834-6	674-4	484-4	124-3	766-6	457-4	444-4	114-3	720-6	381-4	417-4	107-3	687-6	348-4	400-4	102-3
0.044	787-4	122-5	104-3	645-4	174-3	796-6	415-4	420-4	113-3	783-6	374-4	415-4	111-3	762-6	361-4	404-4	108-3
0.046	871-4	144-5	131-3	699-4	197-3	861-6	499-4	416-4	117-3	851-6	445-4	411-4	116-3	839-6	393-4	408-4	114-3
0.048	166-3	133-5	191-3	859-4	253-3	957-6	632-4	425-4	125-3	946-6	515-4	421-4	123-3	933-6	442-4	414-4	122-3
0.050	863-4	168-5	164-3	688-4	211-3	113-5	610-4	461-4	142-3	107-5	555-4	440-4	135-3	103-5	486-4	426-4	130-3
0.055	141-3	295-5	241-3	598-4	337-3	143-5	701-4	486-4	164-3	139-5	628-4	467-4	158-3	131-5	603-4	443-4	150-3
0.060	160-3	298-5	237-3	848-4	312-3	181-5	103-3	515-4	190-3	166-5	819-4	474-4	173-3	157-5	752-4	451-4	164-3
0.065	901-4	319-5	197-3	773-4	308-3	202-5	926-4	490-4	195-3	189-5	921-4	459-4	182-3	184-5	893-4	448-4	178-3
0.070	524-3	689-5	590-3	143-3	618-3	253-5	149-3	527-4	227-3	225-5	125-3	470-4	202-3	215-5	110-3	455-4	193-3
0.075	309-3	486-5	329-3	885-4	407-3	321-5	157-3	583-4	269-3	280-5	138-3	509-4	235-3	258-5	131-3	470-4	216-3
0.080	959-3	127-4	965-3	203-3	998-3	413-5	244-3	661-4	324-3	347-5	188-3	553-4	272-3	317-5	163-3	510-4	249-3
0.085	435-3	885-5	596-3	125-3	654-3	480-5	292-3	677-4	355-3	434-5	231-3	617-4	320-3	387-5	196-3	557-4	286-3
0.090	936-3	244-4	162-2	308-3	170-2	701-5	401-3	882-4	491-3	643-5	325-3	727-4	425-3	537-5	269-3	612-4	355-3
0.095	148-3	114-4	619-3	129-3	756-3	742-5	371-3	837-4	491-3	643-5	325-3	727-4	425-3	537-5	269-3	612-4	355-3
0.100	154-2	254-4	156-2	260-3	160-2	802-5	397-3	821-4	504-3	705-5	335-3	712-4	443-3	615-5	295-3	625-4	386-3
0.110	184-3	216-4	112-2	182-3	123-2	140-4	706-3	118-3	801-3	978-5	433-3	836-4	559-3	800-5	344-3	687-4	457-3
0.120	140-2	275-4	141-2	195-3	144-2	189-4	867-3	135-3	991-3	143-4	660-3	102-3	751-3	118-4	520-3	867-4	621-3
0.130	158-2	563-4	252-2	341-3	272-2	289-4	127-2	176-3	139-2	241-4	101-2	145-3	116-2	179-4	765-3	111-3	868-3
0.140	155-2	895-4	402-2	467-3	401-2	510-4	215-2	266-3	229-2	374-4	151-2	196-3	168-2	259-4	105-2	138-3	116-2
0.150	922-2	315-3	130-1	143-2	132-1	674-4	274-2	305-3	282-2	488-4	197-2	224-3	204-2	335-4	133-2	154-3	142-2
0.160	938-2	280-3	112-1	114-2	112-1	881-4	350-2	349-3	346-2	600-4	232-2	241-3	235-2	368-4	143-2	147-3	144-2
0.170	408-2	165-3	619-2	587-3	613-2	808-4	309-2	286-3	298-2	525-4	201-2	185-3	194-2	325-4	125-2	116-3	120-2
0.180	618-2	282-3	988-2	890-3	984-2	651-4	240-2	206-3	227-2	416-4	145-2	133-3	145-2	314-4	111-2	102-3	109-2
0.190	202-2	144-3	489-2	409-3	478-2	754-4	246-2	212-3	249-2	498-4	167-2	140-3	164-2	330-4	116-2	961-4	109-2
0.200	803-3	108-3	320-2	277-3	340-2	568-4	169-2	146-3	178-2	448-4	152-2	115-3	140-2	325-4	112-2	841-4	102-2
0.220	611-2	220-3	638-2	465-3	629-2	691-4	209-2	147-3	157-2	486-4	155-2	104-3	139-2	346-4	103-2	760-4	990-3
0.240	559-2	218-3	568-2	387-3	571-2	691-4	190-2	123-3	181-2	499-4	128-2	902-4	130-2	367-4	964-3	659-4	961-3
0.260	315-2	132-3	321-2	200-3	320-2	455-4	107-2	693-4	110-2	405-4	101-2	612-4	979-3	316-4	827-3	483-4	766-3
0.280	369-2	170-3	379-2	222-3	382-2	526-4	121-2	682-4	118-2	352-4	919-3	469-4	792-3	305-4	767-3	417-4	685-3
0.300	119-2	106-3	215-2	120-3	222-2	586-4	143-2	663-4	122-2	378-4	106-2	438-4	792-3	341-4	798-3	396-4	715-3
0.320	205-2	117-3	228-2	117-3	231-2	558-4	124-2	556-4	109-2	476-4	942-3	481-4	936-3	375-4	759-3	380-4	737-3
0.340	172-2	967-4	174-2	855-4	178-2	564-4	116-2	499-4	104-2	462-4	995-3	407-4	854-3	352-4	771-3	328-4	651-3
0.360	224-2	183-3	307-2	144-3	319-2	667-4	117-2	525-4	116-2	479-4	961-3	380-4	836-3	399-4	824-3	319-4	698-3
0.380	233-2	200-3	338-2	141-3	331-2	827-4	151-2	588-4	136-2	550-4	107-2	390-4	909-3	446-4	868-3	320-4	738-3
0.400	193-2	164-3	253-2	105-3	258-2	859-4	141-2	547-4	134-2	619-4	100-2	400-4	973-3	494-4	856-3	325-4	777-3
0.420	579-3	195-3	268-2	113-3	292-2	923-4	139-2	536-4	138-2	724-4	106-2	423-4	108-2	544-4	915-3	323-4	815-3
0.440	495-2	391-3	552-2	210-3	567-2	134-3	207-2	709-4	192-2	834-4	133-2	445-4	119-2	656-4	100-2	349-4	937-3
0.460	665-3	191-3	246-2	925-4	261-2	116-3	153-2	566-4	159-2	876-4	119-2	426-4	119-2	744-4	999-3	368-4	101-2
0.480	166-2	158-3	203-2	705-4	207-2	114-3	151-2	508-4	149-2	976-4	127-2	433-4	127-2	812-4	959-3	366-4	106-2
0.500	593-2	473-3	592-2	193-3	594-2	143-3	216-2	591-4	180-2	100-3	144-2	410-4	126-2	845-4	102-2	355-4	106-2
0.550	594-2	522-3	596-2	176-3	596-2	172-3	186-2	585-4	197-2	114-3	132-2	391-4	130-2	919-4	106-2	317-4	105-2
0.600	833-3	245-3	254-2	697-4	257-2	190-3	200-2	542-4	199-2	150-3	154-2	430-4	157-2	109-3	111-2	317-4	114-2
0.650	238-3	455-3	425-2	110-3	440-2	339-3	315-2	820-4	328-2	234-3	226-2	571-4	226-2	163-3	165-2	406-4	157-2
0.700	831-2	100-2	897-2	209-3	900-2	492-3	454-2	102-3	441-2	325-3	305-2	685-4	292-2	202-3	203-2	430-4	181-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

IIIIH126 71.132.0 2660 NUTWOOD AVENUE, PENTHOUSE WEST WING, FULLERTON, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	303-2	506-3	435-2	921-4	424-2	378-3	342-2	686-4	316-2	294-3	264-2	538-4	247-2	205-3	198-2	380-4	171-2	127-3	133-2	251-4	106-2
0.80	373-2	488-3	383-2	781-4	383-2	251-3	219-2	401-4	197-2	229-3	192-2	371-4	180-2	192-3	174-2	317-4	151-2	133-3	131-2	234-4	104-2
0.85	444-2	651-3	472-2	921-4	481-2	318-3	238-2	451-4	235-2	210-3	172-2	302-4	155-2	177-3	153-2	263-4	131-2	134-3	125-2	213-4	995-3
0.90	112-2	339-3	264-2	429-4	237-2	263-3	206-2	332-4	183-2	209-3	160-2	266-4	146-2	172-3	137-2	224-4	120-2	134-3	116-2	191-4	938-3
0.95	567-3	329-3	224-2	373-4	217-2	217-3	155-2	247-4	143-2	177-3	145-2	202-4	117-2	163-3	124-2	191-4	108-2	133-3	106-2	171-4	881-3
1.00	439-2	707-3	437-2	723-4	444-2	343-3	209-2	351-4	216-2	205-3	134-2	210-4	128-2	157-3	121-2	166-4	987-3	131-3	994-3	153-4	824-3
1.10	135-2	297-3	180-2	251-4	169-2	302-3	167-2	256-4	173-2	232-3	135-2	197-4	132-2	150-3	114-2	131-4	861-3	127-3	101-2	126-4	730-3
1.20	359-3	597-3	336-2	424-4	312-2	324-3	211-2	230-4	169-2	227-3	149-2	162-4	119-2	169-3	121-2	123-4	888-3	123-3	104-2	104-4	644-3
1.30	255-2	560-3	262-2	339-4	270-2	307-3	204-2	185-4	148-2	229-3	163-2	139-4	110-2	167-3	131-2	105-4	809-3	123-3	104-2	839-5	597-3
1.40	138-2	311-3	139-2	162-4	139-2	218-3	134-2	114-4	982-3	189-3	117-2	100-4	851-3	163-3	113-2	901-5	733-3	125-3	996-3	763-5	563-3
1.50	179-2	432-3	181-2	196-4	181-2	290-3	121-2	132-4	121-2	221-3	997-3	101-4	926-3	167-3	964-3	773-5	701-3	134-3	927-3	670-5	562-3
1.60	612-3	339-3	137-2	135-4	133-2	272-3	102-2	108-4	106-2	228-3	866-3	916-5	895-3	186-3	828-3	765-5	733-3	140-3	861-3	624-5	553-3
1.70	857-3	337-3	130-2	119-4	124-2	236-3	851-3	836-5	873-3	221-3	758-3	789-5	818-3	198-3	751-3	722-5	732-3	150-3	812-3	594-5	556-3
1.80	113-2	491-3	146-2	155-4	171-2	330-3	104-2	104-4	115-2	257-3	821-3	817-5	858-3	212-3	756-3	688-5	740-3	159-3	781-3	568-5	556-3
1.90	313-3	436-3	126-2	123-4	144-2	293-3	978-3	832-5	971-3	247-3	849-3	703-5	817-3	220-3	790-3	641-5	730-3	167-3	765-3	533-5	552-3
2.00	586-3	387-3	100-2	991-5	121-2	352-3	101-2	902-5	110-2	292-3	936-3	750-5	917-3	231-3	818-3	603-5	726-3	182-3	760-3	523-5	572-3
2.20	668-3	419-3	134-2	123-4	144-2	351-3	111-2	743-5	100-2	312-3	941-3	661-5	893-3	256-3	838-3	560-5	731-3	220-3	779-3	529-5	628-3
2.40	694-3	547-3	168-2	971-5	143-2	385-3	134-2	684-5	150-2	351-3	107-2	629-5	918-3	316-3	904-3	583-5	828-3	256-3	812-3	526-5	671-3
2.60	781-3	817-3	194-2	123-4	154-2	573-3	123-2	868-5	138-2	461-3	101-2	705-5	111-2	382-3	889-3	598-5	925-3	330-3	819-3	529-5	798-3
2.80	123-2	687-3	134-2	896-5	154-2	685-3	139-2	894-5	153-2	603-3	124-2	788-5	135-2	504-3	103-2	666-5	113-2	414-3	850-3	579-5	929-3
3.00	133-2	128-2	263-2	145-4	268-2	926-3	183-2	105-4	193-2	719-3	135-2	823-5	150-2	599-3	105-2	701-5	125-2	490-3	905-3	608-5	102-2
3.20	195-2	104-2	214-2	104-4	204-2	682-3	174-2	681-5	133-2	666-3	137-2	668-5	130-2	653-3	106-2	666-5	128-2	565-3	945-3	617-5	111-2
3.40	173-2	154-2	266-2	136-4	286-2	112-2	182-2	994-5	207-2	882-3	150-2	786-5	163-2	726-3	129-2	655-5	134-2	642-3	990-3	619-5	118-2
3.60	446-2	256-2	446-2	202-4	446-2	176-2	298-2	139-4	308-2	127-2	211-2	101-4	223-2	942-3	156-2	759-5	164-2	725-3	106-2	623-5	126-2
3.80	193-2	173-2	285-2	122-4	286-2	146-2	234-2	103-4	242-2	142-2	217-2	101-4	234-2	112-2	170-2	813-5	186-2	841-3	122-2	634-5	139-2
4.00	420-2	268-2	421-2	171-4	421-2	219-2	334-2	140-4	345-2	178-2	259-2	114-4	280-2	170-2	193-2	850-5	204-2	978-3	140-2	675-5	153-2
4.20	556-2	372-2	557-2	216-4	557-2	296-2	429-2	172-4	443-2	220-2	325-2	128-4	329-2	153-2	228-2	912-5	230-2	111-2	158-2	707-5	166-2
4.40	588-2	413-2	590-2	218-4	590-2	335-2	480-2	177-4	479-2	244-2	365-2	129-4	349-2	182-2	263-2	987-5	260-2	124-2	177-2	723-5	177-2
4.60	665-2	488-2	667-2	236-4	667-2	396-2	522-2	179-4	506-2	272-2	395-2	132-4	371-2	208-2	296-2	102-4	284-2	137-2	189-2	722-5	187-2
4.80	676-2	517-2	694-2	229-4	677-2	398-2	553-2	176-4	518-2	307-2	433-2	137-4	402-2	230-2	317-2	104-4	301-2	147-2	200-2	704-5	193-2
5.00	599-2	506-2	675-2	207-4	637-2	411-2	534-2	168-4	516-2	325-2	423-2	134-4	409-2	243-2	315-2	102-4	306-2	155-2	207-2	694-5	195-2
5.50	351-2	402-2	475-2	136-4	459-2	358-2	429-2	121-4	409-2	307-2	378-2	104-4	351-2	245-2	313-2	847-5	280-2	166-2	227-2	615-5	190-2
6.00	197-2	281-2	310-2	799-5	294-2	287-2	325-2	816-5	300-2	276-2	326-2	790-5	289-2	237-2	300-2	692-5	249-2	185-2	233-2	573-5	194-2
6.50	306-2	397-2	400-2	962-5	384-2	360-2	378-2	872-5	348-2	310-2	348-2	758-5	300-2	263-2	301-2	663-5	254-2	201-2	229-2	546-5	194-2
7.00	523-2	583-2	570-2	121-4	524-2	477-2	485-2	997-5	428-2	395-2	394-2	831-5	354-2	306-2	302-2	663-5	275-2	210-2	221-2	512-5	189-2
7.50	591-2	708-2	593-2	128-4	593-2	547-2	495-2	996-5	458-2	431-2	410-2	791-5	361-2	314-2	321-2	586-5	263-2	205-2	231-2	450-5	172-2
8.00	492-2	628-2	563-2	100-4	493-2	498-2	483-2	796-5	391-2	404-2	394-2	651-5	317-2	306-2	299-2	517-5	241-2	210-2	225-2	392-5	165-2

California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22151:

EERL 70-20	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data (Vol. I, Part A)	PB-187 847
EERL 70-21	" " (Vol. I, Part B)	PB-196 823
EERL 71-20	" " (Vol. I, Part C)	PB-204 364
EERL 71-21	" " (Vol. I, Part D)	PB-208 529
EERL 71-22	" " (Vol. I, Part E)	PB-209 749
EERL 71-23	" " (Vol. I, Part F)	PB-210 619
EERL 72-20	" " (Vol. I, Part G)	PB-211 357
EERL 72-21	" " (Vol. I, Part H)	PB-211 781
EERL 72-22	" " (Vol. I, Part I)	PB-213 422
EERL 72-23	" " (Vol. I, Part J)	PB-213 423
EERL 72-24	" " (Vol. I, Part K)	PB-213 424
EERL 72-25	" " (Vol. I, Part L)	PB-215 639
EERL 72-26	" " (Vol. I, Part M)	PB-220 554
EERL 72-27	" " (Vol. I, Part N)	PB-223 023
EERL 73-20	" " (Vol. I, Part O)	PB-222 417
EERL 71-50	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data: Corrected Accelerograms and Integrated Ground Velocity and Displacement Curves (Vol. II, Part A)	PB-208 283
EERL 72-50	" " (Vol. II, Part B)	PB-220 161
EERL 72-51	" " (Vol. II, Part C)	PB-220 162
EERL 72-52	" " (Vol. II, Part D)	PB-220 836
EERL 73-50	" " (Vol. II, Part E)	PB-223 024
EERL 73-51	" " (Vol. II, Part F)	PB-224 977/9AS

EERL 72-80	Analyses of Strong Motion Earthquake Accelerograms - Response Spectra	(Vol. III, Part A)	PB-212 602
EERL 73-80	"	(Vol. III, Part B)	PB-221 256
EERL 73-81	"	(Vol. III, Part C)	PB-223 025
EERL 72-100	Analyses of Strong Motion Earthquake Accelerograms - Fourier Amplitude Spectra	(Vol. IV, Part A)	PB-212 603
EERL 73-100	"	(Vol. IV, Part B)	PB-220 837
EERL 73-101	"	(Vol. IV, Part C)	PB-222 514
EERL 73-102	"	(Vol. IV, Part D)	PB-223 969/AS
Joint Report:	Strong-Motion Instrumental Data on the San Fernando Earthquake of February 9, 1971		PB-204 198
EERL 71-01	P. C. Jennings, <u>et al</u> , Forced Vibration of a 22-Story Steel Frame Building		PB-205 161
EERL 71-02	P. C. Jennings, ed., Engineering Features of the San Fernando Earthquake		PB-202 550
EERL 71-03	Randolph A. Adu, Response and Failure of Structures under Stationary Random Excitation		PB-205 304
EERL 71-04	Jacobo Bielak, Earthquake Response of Building-Foundation Systems		PB-205 305
EERL 71-05	M. D. Trifunac, F. E. Udwadia, A. G. Brady, High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms		PB-205 369
EERL 71-06	Knut Sverre Skattum, Dynamic Analysis of Coupled Shear Walls and Sandwich Beams		PB-205 267
EERL 71-07	John Brent Hoerner, Modal Coupling and Earthquake Response of Tall Buildings		PB-207 635
EERL 72-01	P. C. Jennings and J. Bielak, Dynamics of Building-Soil Interaction		PB-209 666
EERL 72-02	F. E. Udwadia, Investigation of Earthquake and Microtremor Ground Motions		PB-212 853
DRC 72-01	Albert W. Whitney, On Insurance Settlements Incident to the 1906 San Francisco Fire		PB-213 256

EERL 72-04	J. H. Wood, Analysis of the Earthquake Response of a Nine-Story Steel Frame Building during the San Fernando Earthquake	PB-215 823
EERL 73-01	F. E. Udawadia and M. D. Trifunac, The Fourier Transform, Response Spectra and their Relationship through the Statistics of Oscillator Response	PB-220 458
EERL 73-02	Research Papers Submitted to Fifth World Conference on Earthquake Engineering, Rome, Italy, 25-29 June 1973	PB-220 431
DRC 73-02	Earthquakes and Insurance, Published Papers on the Earthquake Research Affiliates Conference of 2-3 April 1973	PB-223 033
EERL 73-03	M. D. Trifunac and V. Lee, Routine Computer Processing of Strong-Motion Accelerograms	PB-226 047-AS